# U.S. Army Center for Health Promotion and Preventive Medicine



FORT BLISS 1989 DATABASE TECHNICAL REPORT NO. 29-HE-8093B-99

DATABASE DESCRIPTION
DEMOGRAPHICS, ANTHROPOMETRICS, RISK FACTORS/
AND FITNESS MEASURES



Prepared By:

John W. Gardner, MD, DrPH; COL, MC, FS, USA
Rose M. Popovich, MPH
Vitaly Ovchinnikov
Matt Tolman
Bruce H. Jones, MD, MPH; COL, MC, USA



December 1997

### DISTRIBUTION STATEMENT A

Approved for Public Release Distribution Unlimited

Department of Preventive Medicine and Biometrics Uniformed Services University of the Health Sciences Bethesda, MD 20814-4799

Office of Epidemiology and Disease Surveillance
US Army Center for Health Promotion and Preventive Medicine
Aberdeen Proving Ground, MD 21010-5422





DTIC QUALITY INSPECTED 4 Readiness Thru Health

#### U.S. Army Center for Health Promotion and Preventive Medicine

The lineage of the U.S. Army Center for Health Promotion and Preventive Medicine (USACHPPM) can be traced back over 50 years. This organization began as the U.S. Army Industrial Hygiene Laboratory, established during the industrial buildup for World War II, under the direct supervision of the Army Surgeon General. Its original location was at the Johns Hopkins School of Hygiene and Public Health. Its mission was to conduct occupational health surveys and investigations within the Department of Defense's (DOD's) industrial production base. It was staffed with three personnel and had a limited annual operating budget of three thousand dollars.

Most recently, it became internationally known as the U.S. Army Environmental Hygiene Agency (AEHA). Its mission expanded to support worldwide preventive medicine programs of the Army, DOD, and other Federal agencies as directed by the Army Medical Command or the Office of The Surgeon General, through consultations, support services, investigations, on-site visits, and training.

On 1 August 1994, AEHA was redesignated the U.S. Army Center for Health Promotion and Preventive Medicine with a provisional status and a commanding general officer. On 1 October 1995, the nonprovisional status was approved with a mission of providing preventive medicine and health promotion leadership, direction, and services for America's Army.

The organization's quest has always been one of excellence and the provision of quality service. Today, its goal is to be an established world-class center of excellence for achieving and maintaining a fit, healthy, and ready force. To achieve that end, the CHPPM holds firmly to its values which are steeped in rich military heritage:

- ★ Integrity is the foundation
  - ★ Excellence is the standard
    - ★ Customer satisfaction is the focus
      - ★ Its people are the most valued resource
        - ★ Continuous quality improvement is the pathway

This organization stands on the threshold of even greater challenges and responsibilities. It has been reorganized and reengineered to support the Army of the future. The CHPPM now has three direct support activities located in Fort Meade, Maryland; Fort McPherson, Georgia; and Fitzsimons Army Medical Center, Aurora, Colorado; to provide responsive regional health promotion and preventive medicine support across the U.S. There are also two CHPPM overseas commands in Landstuhl, Germany and Camp Zama, Japan who contribute to the success of CHPPM's increasing global mission. As CHPPM moves into the 21st Century, new programs relating to fitness, health promotion, wellness, and disease surveillance are being added. As always, CHPPM stands firm in its commitment to Army readiness. It is an organization proud of its fine history, yet equally excited about its challenging future.

#### REPORT DOCUMENTATION PAGE

Form Approved OMB No. 0704-0188

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Washington Headquarters Services, Directorate for Information Operations and Reports, 1215 Lefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302, and to the Office of Management and Budget, Paperwork Reduction Project (0704-0188), Washington, DC 20503.

butto (tightis), contained of the signal of the same			· · · · · · · · · · · · · · · · · · ·
1. AGENCY USE ONLY (Leave blan	2. REPORT DATE December 1997	3. REPORT TYPE AND DATE	TES COVERED
4. TITLE AND SUBTITLE Fort Bliss 1989 Database: Demog Measures	graphics, Anthropometrics, Risk		UNDING NUMBERS
6. AUTHOR(S) John W. Gardner, Rose M. Popo Jones	vich, Vitaly Ovchinnikov, Mat	Tolman, Bruce. H.	
7. PERFORMING ORGANIZATION N US Army Center for Health Pror Directorate of Epidemiology and Aberdeen Proving Ground, MD	notion and Preventive Medicine Disease Surveillance		PERFORMING ORGANIZATION REPORT NUMBER
9. SPONSORING / MONITORING AC US Army Center for Health Proi Directorate of Epidemiology and Aberdeen Proving Ground, MD	notion and Preventive Medicine Disease Surveillance		SPONSORING / MONITORING AGENCY REPORT NUMBER HE-8093b-99
11. SUPPLEMENTARY NOTES			
12a. DISTRIBUTION / AVAILABILIT	Y STATEMENT	128	D. DISTRIBUTION CODE
Approved for	Public Release, Distribution is	Unlimited	
13. ABSTRACT (Maximum 200 we This report describes a database description of the database and d scores and clinic visits for injurie	collected on men attending basic escriptive information on questic	c combat training at Ft. Blis onnaire responses, anthropo	ss, TX in 1989. Included is a ometric measures, physical fitness
	•		
14. SUBJECT TERMS			15. NUMBER OF PAGES
Anthropometry, Physical Fitness	, Injuries, Smoking Tobacco, P.	hysical Activity	16. PRICE CODE
17. SECURITY CLASSIFICATION OF REPORT Unclassified	18. SECURITY CLASSIFICATION OF THIS PAGE Unclassified	19. SECURITY CLASSIFICAT OF ABSTRACT Unclassified	TION 20. LIMITATION OF ABSTRACT

## FORT BLISS 1989 DATABASE TABLE OF CONTENTS

REPORT SUMMARY		5
Purpose of Report		
Purpose of Study		
Methods of Study		
LIST OF CONTACT POIN	NTS	7
APPENDIX DESCRIPTIO	NS (A-F)	8
A. Protocol		
B. Questionnaire		
C. Data Collection	/Extraction Forms	
D. Database Code	books	
E. Tables and Hist	ograms for Male Recruit Subjects	
APPENDIX CONTENTS	(A-F)	
Appendix A		9
Protocol: "Preventi	ion of Stress Fractures Through Modification of Basic Combat	
Training	'Activities"	
Programme	ed Research and Related Activities STSNL Form 745	
Protocol Pr	esentation	
Appendix B		49
Initial Entry Physic	cal Activity and Health Questionnaire (Form Number 75020-5	-72)
Section I - S	ection VI	
Appendix C	•	57
Data Collection/E	xtraction Forms	
1. Anthropo	ometric Data Collection Form	
2. Daily Tra	ining Log (company training activities)	
3. Injuries: 1	Medical Records Review	
4. Illnesses:	Medical Records Review	
5. Voluntee	er Agreement Affidavit (DA Form 5303-R) for: "Prevention o	of Stress
Frac	tures Through Modification of Basic Combat Training Activit	ies"
6. Volunte	er Agreement Affidavit (DA Form 5303-R) for: "The U	tility of
The	rmographic Evaluation in the Diagnosis of Lower Extremity	Injuries
Dur	ing Army Initial Entry Training"	

## FORT BLISS 1989 DATABASE TABLE OF CONTENTS

<u>Appendix D</u>			69
Codeb	ool	cs .	
	1.	FB Main	
	2.	FB Anthropometric	
	3.	FB APRT	
	<b>4</b> .	FB Injury/additional coding notations	
	5.	FB Illness/additional coding notations	
	6.	FB Questionnaire	
Appendix E			145
Tables	an	d Histograms Presented for Male Recruit Subjects	
	Ta	ble of Contents	
	Su	bject Information by Unit for Males	
	Ta	bles and Histograms for Variables of Interest	
		1. Demographics	
		2. Anthropometrics	
		3. Risk Factors	
		4. Fitness Measures	

# FORT BLISS 1989 DATABASE TECHNICAL REPORT REPORT SUMMARY

#### **PURPOSE OF THIS REPORT**

This technical report provides information and documentation about the data available in the various files of the Fort Bliss database. The purpose is not to present findings of the study, but instead to present data content in a descriptive format. The data contents of this report are current as of Summer 1997.

#### **PURPOSE OF THE STUDY**

Through the use of an intervention study design, the incidence of training-related injuries was documented in a study group at Fort Bliss, Texas in 1989. Data were collected from six companies of male Army recruits that participated in the intervention study, which involved abstaining from running for one week each during the 2nd or 3rd week of training, and also included a range of running mileage.

The focus of the study was on the occurrence of stress fractures, stress reactions, and other musculoskeletal injuries. The study was designed to determine whether a reduction in the incidence of these types of injuries would occur if running and marching were avoided at designated times during the course of the eight week basic training session. A decrease in injury incidence due to abstention from running or decreased running mileage was of particular interest when injury rates among the six companies were compared.

#### **METHODS OF THE STUDY**

Investigators met with recruits during the in-processing week. They explained to potential subjects (usually as a company group) the purpose of the study and obtained informed consent, administered a survey questionnaire and obtained anthropometric measurements. The study companies were followed by the investigators during the basic training session through the collection of company training logs, Army physical readiness test results, and reviewing medical charts from which clinic visit data for illnesses and injuries were abstracted.

Initial fitness of all subjects entering basic training and the potential impact on the risks of injury occurrence were determined from questionnaire responses, anthropometric measurements, physical fitness test results, and clinic visits for injury.

#### FORT BLISS 1989 DATABASE TECHNICAL REPORT REPORT SUMMARY

#### **METHODS OF THE STUDY** (continued)

The questionnaire covered history of physical activity and physical fitness, past injuries and illnesses, strength training and stretching, and exercise and sports involvement during the month prior to arrival for basic training. Anthropometric measurements included height, weight, neck and abdominal circumferences, and foot and flexibility measurements. Physical fitness test results were documented for recruits four times throughout the eight week basic training cycle, with initial testing completed during the first week of training. Performances on these Army physical readiness tests (APRT) were compared between the initial and final tests and were used to assist in the determination of physical fitness improvement among recruits.

Clinic visits were documented for all study recruits with periodic medical record abstraction for each visit. Time loss due to injury was also recorded, including the number of training days lost due to an overuse injury or a traumatic injury, and its relationship with the physical training program variations implemented among the six companies.

Study subjects also had an initial thermography exam performed as a baseline for diagnosis of leg and foot injuries. Thermogram and bone scan tests were used liberally for clinical indications of suspected injury as part of the routine medical evaluation when a recruit presented to the clinic.

#### FORT BLISS 1989 DATABASE LIST OF CONTACT POINTS

John W. Gardner, MD, DrPH; COL, MC, FS, USA; Professor, Department of Preventive Medicine and Biometrics, Uniformed Services University of the Health Sciences, 4301 Jones Bridge Road, Bethesda, MD 20814-4799.

voice: 301) 295-3712 or (301) 319-6974 or [DSN 295-3712]

fax: (301) 295-1854 or (301) 319-6954

e-mail: jgardner@usuhs.mil

Rose M. Popovich, MPH; Senior Research Associate/Project Manager, Department of Preventive Medicine and Biometrics, Uniformed Services University of the Health Sciences, 4301 Jones Bridge Road, Bethesda, MD 20814-4799.

voice: (301) 295-6988 or [DSN 295-6988]

fax: (301) 319-6954

e-mail: rpopovich@usuhs.mil

Bruce H. Jones, MD, MPH; COL(retired), MC, USA; Motor Vehicle Team Leader, Division of Unintentional Injury Prevention, National Center for Injury Prevention and Control, Centers for Disease Control, 4770 Buford Highway, NE, (K63), Atlanta, GA 30341.

phone: (770) 488-4652

fax: (770) 488-1317

e-mail: bdj2@cdc.gov

Margarete Di Benedetto, MD; Professor, Department of Physical Medicine and Rehabilitation, University of Virginia, Health Science Center, Box 30-BRH, Charlottesville, VA 22901.

voice: (804) 924-2751

fax: (804) 982-0089

Thomas J. Scully, MD; Chief, Department of Surgery, El Paso Veterans Health Care Center, 5001 N. Piedras Street, El Paso, TX 79930-4211.

phone: (915) 564-6142

#### FORT BLISS 1989 DATABASE APPENDICES DESCRIPTIONS

#### APPENDIX A Protocol

"Prevention of Stress Fractures Through Modification of Basic Combat Training Activities": Purpose is to compare the incidence and specifically, the reduction in incidence of stress-related injuries through variations in the basic physical training program for Army recruits. Variations include reduction in total running mileage and avoidance of running and marching during the second or third week of training.

#### APPENDIX B Questionnaire

Survey questions included assessment of physical fitness and past participation in physical activities, past injuries and illnesses, strength training and stretching, and exercise and sports involvement during the month prior to arrival for basic training.

#### APPENDIX C Data Collection/Extraction Forms

Included are data collection forms for anthropometric measurements and daily training logs used by each company for listing training activities, including duration and distance for running and/or marching. Data extraction forms used for medical record review of injuries and illnesses are also included.

#### APPENDIX D Codebooks

Codebooks are presented for six files maintained in the database, to include the main file, questionnaire file, anthropometric file, Army physical readiness test (APRT) file, injury and illness files. Codebooks include field names, descriptions, missing values, calculations, formats and frequencies/means of responses. Included in this appendix are additional coding notations utilized to maintain consistent coding of injury and illness variables.

## APPENDIX E Tables and Histograms for Demographics, Anthropometrics, Risk Factors, and Fitness Measures

Descriptive information is presented in tabular form to include statistical data along with corresponding histograms or bar charts. Descriptive information includes demographics, anthropometrics, risk factors, and fitness measures presented for the 1357 male recruits participating in the study.

#### FORT BLISS 1989 DATABASE

## APPENDIX A PROTOCOL

PROGRAMMED RESEARCH AND RELATED ACTIVITIES	Section A - ADMINISTRATION			
modification of basic combat training act:	_			
TYPE OF ACTIVITY OR RESEARCH:  XX Human (This research does does not fall within limits    Animal   Other	tions of an approved Type Protocol  Laboratory  Field			
Estimated Starting Dates 1 June 1989 Estimated Completion Date 30 December 199	Por Portor Date:			
PERSONNEL: (List all personnel, with responsible investigator first. E COL Thomas J. Scully, MC WBAMC - Princip MAJ Bruce H. Jones, MC USARIEM - Responsible Investigator first. E COL Roy W. Tate, Fort Bliss Janice E. Morales, WBAMC				
SPECIAL SERVICES AND FACILITIES REQUIREMENTS: (Check portion	nent blocks)			
Animal (See USARIEM Mame 70-3)  Additional personnel including work period adjustments  Use of Redictoropes  Contracts for services				
Computer (ADP Office)  Tost Subjects  Volunteer statement  Medical Coverage  TDY Costs				
Climatic Chambers Building  Chambers, ARIEM Building (Specify)				
REMARKS: This protocol represents a collabo Investigation Service, WBAMC and the Exer Funding is being provided by HQ-MRDC				
NOTE: Responsible investigeter's signeture below indicates that proliming lead times have been considered. The responsible investigator a				
BRUCE H. JONES, MAJ, MC Submitted by (Responsible Investigator)	JAMES A. VOGEL, Ph D:, Dir, Ex PH Div.  Recommend Approval/Discounts (Lab Dir)			
Date:	Defet ·			
WU: 134 Physical Fitness Training and Medical Problems Related to Training	Recommend Approvel/Disapprovels (Assistant to CDR/DIR).  Office Deter 24 Mar 87  VIOLET M. TRAINER			
Tech Pro: (MEM, RBS, ILIR)  3E162787A879  Cost Code: 9450083303134  Fiscal Approval/Disapproval: (Budget Officer)  Date:  Date:  Date:  Date:  DAVID D. SCHNAKENBERG, COL, MS, COMMANDIN  Approved/Disapprovad: (CDR/DIR)				
Approvel from higher headquarters required?	at ewait final correval from USAMRADC)			

24 March 1989

SGRD-UE-PH

MEMORANDUM FOR Commander

SUBJECT: Protocol Review

The accompanying protocol entitled "Prevention of stress fractures through modification of basic combat training activities" has been reviewed both by outside consultants as well as other members of this Division. I certify that it meets acceptable standards of experimental design.

Encl

AMES A. VOGEL, KM.D.

Director

Exercise Physiology Division

#### WILLIAM BEAUMONT ARMY MEDICAL CENTER EL PASO, TEXAS 79920-5001

#### APPLICATION FOR CLINICAL STUDY

1. PROJECT TITLE: Prevention of Stress Fractures Through Modification of Basic Combat Training Physical Training Activities Based on

Biodynamics.

2. PERSONNEL INVOLVED:

e de la compansión de l

a. PRINCIPAL INVESTIGATOR: COL Thomas J. Scully, MC,

Chief, Orthopaedic Service.

WBAMC

COL Roy W. Tate

Commander, USA Training Ctr

Fort Bliss, TX

b. CO-INVESTIGATORS: MAJ Bruce H. Jones, MC

Medical Research Officer

USARIEM

Janice E. Mörales

RN/BioMedical Engineer

. CONSULTANTS: MAJ David Cowan

Div. of Preventive Medicine

Dr. John M. Harris Chief of Orthopaedics Boston VA Medical Center

3. LOCATION OF STUDY: USATC Fort Bliss, TX, Orthopaedic and

Nuclear Medicine Clinics, WBAMC

4. TIME REQUIRED TO COMPLETE: 24 months.

5. PURPOSE: To compare the incidence and distribution, over the course of basic training, of the occurrence of stress fractures, stress reactions, and other musculoskeletal injuries, among Army Basic Combat Trainees participating in one of four variations in physical training. The variations to be studies are (1) progressive training, (2) cyclic training with avoidance of running and jumping during the second week, (3) cyclic training with avoidance of running and jumping during the third week and (4) reduced total running mileage.

Specifically, the purpose of this study is to determine whether avoidance of running and marching in the second or third week of training will reduce the incidence of stress fractures, stress reactions of bone and musculoskeletal injuries in general, when compared to progressive training. If there is a decrease in

injury we wish to determine if the decrease in injury is specific to the response to cyclic training or rather due to the decreased running miles (the mechanical response - sited in the Israeli Studies) (1.2.3.4).

We will address the deficiencies of previous studies by :

- a. Thoroughly characterizing the population of trainees to be studied, including variables previously identified as important factors associated with increased risk for stress fracture and other musculoskeletal training injuries.
  - b. Documenting the initial fitness of all trainees.
- c. Thorough documentation of the training program to which the trainee will be exposed.
- d. Complete documentation of all injuries, including stress fracture.
- e. Application of a clear operational definition of stress fractures and stress reactions based on a grading system supported by the most current literature.

#### 6. INTRODUCTION:

- a. Medical and Military Application. 4.88% of all Army Basic Trainees seek medical attention for treatment of stress fractures. The cost to TRADOC because of this training related injury is more than 9,251,403.2 dollars per year (Appendix 1). Additional cost estimated at 2,136,027.1 dollars per year are expended by health Services Command for the diagnosis and treatment of trainees with stress fractures. Costs which have not yet been determined are also incurred by DOD and the VA for disability payment to the trainees who are separated because of temporary or permanent impairments resulting from stress fractures. More important than these monetary considerations, however, are the immeasurable cost related to impairment of efficiency of training centers and medical facilities, not to mention the pain and impairment sustained by the injured trainee.
- b. Background: Stress fractures have been a major concern of the military service since the 19th century, and more recently for civilian athletes and the sports medicine community. Although numerous studies of stress fractures have been published, little effort has been devoted to the development of methods to prevent this injury. Several studies of stress fractures have specifically examined the problem in basic trainees: (Brudvig 1983, Cowan 1988, Gardner 1988, Giladi 1985, Jones, Army Technical Report 1988, Kowal 1980, Milgrom 1985, Protzmann 1977, Scully 1982,

Most of these studies have demonstrated methodological shortcomings and/or problems with the operational definition of stress fractures (Jones, Harris et al, in Press).

Laboratory studies (13, 14, 15, 16, 17, 18, 19) suggest that the material fatigue life of cortical bone is in the range of 10,000 to 100,000 cycles. Evidence from this purely mechanical study suggest that the number of cycles of strain is important to the fatigue life of bone. Assuming the average number of miles running and walking in a 12 week OSUT training cycle is 200 miles (personal communication Bruce Jones) which approximates 140,000 foot strikes (loading cycles) in that training period, it is apparent that if stress fractures were the result of purely the material characteristics of cortical bone, essentially all recruits would have suffered at least one stress fracture during training, Clearly this is not the case. There must be factors other than those of a purely mechanical nature involved in the etiology of stress fracture since 95% of recruits do not sustain fractures or any failure of their skeletal system during training.

The classic studies of Julius Wolff, originally published in 1892, firmly established the "Law of Bone Remodeling" which states that bone undergoes predictable changes in shape and internal archetecture when it is subjected to mechanical stresses. Subsequent investigators have examined the mechanisms by which these changes are affected. Studies in military trainees and in experimental animals have demonstrated that when living bone is subjected to repeated mechanical stress it undergoes sequential histologic changes which initially remove "stressed" bone via resorption by osteoclasts and subsequently adds reparative new bone through the action of osteoblasts.

The osteoclastic phase of bone remodeling results in the production of Howship's Lacunae which are small pits or cavities in the bone. These have the unfortunate mechanical consequence of rendering the bone highly susceptible to stress fractures since they act as stress concentrators or crack propagators. Studies in experimental animals have shown that there is a 90 to 98% loss of fatigue life (number of cycles of mechanical loading during the osteoclastic phase of bone remodeling. This period of increased susceptibility to fracture is brief. In rats it begins at 5 days after application of repetitive mechanical stress and ends 7 days later when osteoblastic deposition of new bone has advanced sufficiently to restore the fatigue life to normal.

Extrapolation of data obtained from laboratory rats would suggest there is a period during the Basic Training Cycle when the lower limb bones of the military trainee are highly susceptible to stress fractures. Prohibition of activities which apply cyclic loads to the lower limbs, such as walking and marching during this period of increased risk would be expected to decrease the incidence of stress fractures.

This period of risk for basic trainees cannot be established by the techniques used in experimental laboratory animals, since these studies require destructive testing of limb bones. However, the period of risk can be identified by careful cohort studies of the incidence of stress related injuries in trainees undergoing training which has been modified by incorporation of a phase of training during which activities which produce high mechanical stress are prohibited.

c. Status: The existence of a "period of risk" had not been documented prior to the studies of Scully et al2. However, it has been suspected. Pilot studies conducted at Fort Knox, Kentucky and Fort Bliss, Texas, have demonstrated a substantial reduction in the incidence of stress fractures when trainees are prohibited from running, jumping and marching during the third week of basic training.

Two technical reports published June 1988 and November 1988, respectively, by MAJ Jones extensively studied training injuries. The hypothesis generated by these studies, as well as Scully's work, indicate the need for a more refined test on a larger population to confirm conclusion arrived at by both Scully and Jones during independent research.

#### d. Bibliography:

- (1) Chisin R, Milgrom C, Giladi M, Stein M, Margulies J, Kashtan 11: Clinical significance of nonfocal scintigraphic findings in suspected tibial stress fractures. Clin Orthop Related Res 220:200-205, 1987.
- (2) Giladi M, Ahronson Z, Stein M, Danon YL, Milgrom.C: Unusual distirubtion and onset of stress fractures in soldiers. Clin Orthop Related Res 192:142-146, 1985.
- (3) Milgrom C, Giladi M, Chisin R, Dizian R: The long term follow-up of soldiers with stress fractures. Am J Sports Med 13:398-400, 1985.
- (4) Milgrom C, Giladi M, Stein H, et al: Stress fractures in military recruits: a prospective study showing an unusually high incidence. J Bone Joint Surg 67-B:1985, 1985.
- (5) Scully, TJ, Besterman G: Stress fracture a preventable training injury. Milit Med 147:285-287, 1982.
- (6) Breithaupt: Zur Pathologic des menschlichen fusses. Medicishche Zeitung Berlin 1855; 36:169-171, and 37:175-177.
- (7) Brudvig TJS, Gudger TD, Obermeyer L: Stress fractures in 295 trainees: a one-year study of incidence as related to age, sex, and race. Milit Med 148:666-667, 1983.

سه عاشد ه

- (9) Gardner I, Dziados JF, Jones BII, et al: Prevention of lower extremity stress fractures: a controlled trial of a shock abosrbent insole. Am J Pub Health 78:1568-1569 in press.
- (10) Jones B, Manikowski R, Harris J, Dziados J, Norton S, Ewart T, Vogel JA: Incidence of and risk factors for injury and illness among male and female Army basic trainees. Technical Report No T19-88. U.S. Army Research Institute of Environmental Medicine, Natick, Massachusetts, June 1988.
- (11) Kowal DM: Nature and causes of injuries in women resulting from an endurance training program. Am J Sports Med 8:265-268, 1980.
- (12) Protzman RR, Griffis CC: Comparative stress fracture incidence in males and females in an equal training environment. Athletic Training 12:126-130, 1977.
- (13) Burr DB, Mortin RB, Schaffner MB, Radin EL: Bone remodeling in response to in vivo fatigue micro damage. J Biomechanics 1B:189-200, 1985.
- (14) Carter DR, Spengler DM, Frankel VH: Bone fatigue in uniaxial loading at physiologic strain rate. I.R.C.S. J Med Sci 5:592, 1977.
- (15) Carter DR, Hayes WC: Fatigue life of compact bone: effects of stress amplitude, temperature and density. J Biomechanics 9:27-34, 1976.
- (16) Evans FG: The fatigue strength of human compact bone. Anat Rec 112:327, 1952.
- (17) Evans FG, Lebow M: Strength of human compact bone under repetitive loading. J Appl Physiol 10:127-130, 1957.
- (18) Keller TS, Lovin JD, Spengler DM, Carter DR: Fatigue of immature baboon cortical bone. J Biomechanics 18:297-304, 1985.
- (19) Lafferty JF: Analytic model of fatigue characteristics of bone. Aviat Space Environ Med 49:170-174, 1978.
- (20) Wolff, Julius; The Law of Bone Remodeling (Translated by P. Maguet and R. Furlong), Springer/Verlag, 1986.

- (21) Johnson, L.C.; Morphologic Analysis in Pathology. In: Frost, H.M., ed, Bone Biodynamics, Little, Brown and Company, Boston, 1964, pp. 587-595.
- (22) Bogumill, G.P. and Schwamm, H.A.: Orthopaedic Pathology, A Synopsis with Clinical and Radiographic Correlation. W.B. Saunders Co., 1984, pp. 87-93.
- (23) Li G, Zhang S., Chen G, et al: Radiographic and Histologic Analyses of Stress Fractures in Rabbit Tibias. American Journal of Sports Medicine 13: 1985, 285-294.
- (24) Rubin, C.T., Harris, J., Jones, B, Ernst, H. and Lanyon, L.E. (1984) Stress Fractures: The Remodeling Response to Excessive Repetitive Loading. Trans. 30 Ortho. Res. Soc. 9:303.
- (25) Scully, T.J., Reimann, B.E., McNamee, G.; Changes in Bone Micromorphology and Fatigue Fracture Resistance Resulting from Repeated Physical Stress. In: Proceeding of the Third International Jerusulem Symposium of Sports Injuries, Fruend Publishing Company, Tel Aviv/London, in press.
- 7. STUDY DESIGN: The study will be conducted at USATC, Fort Bliss, Texas and WBAMC. 1200 basic combat trainees, 12 companies (80-100 per company) with 3 companies per study group. (Progressive, rest week 2, rest week 3, decreased training mileage.) Treatment groups will be assigned by random lot drawing at the beginning of each basic training cycle. Trainees' medical history will be followed through the completion of their individual AIT assignments.
  - a. Methods: Each company will be studied in four phases.
- (1) Phase 1: Preliminary measurements will be documented on each trainee from review of their physical entrance examination and their personal response to the enclosed questionnaires (see Appendix II and III). Age, race, height, weight, flexibility of their feet, history of athletic activity, during the one month before start of basic training, history of past injury to lower limbs, and age of athletic shoes used prior to basic training will be obtained.

#### (2) Phase 2:

- (a) Initial, intermediate, and final physical fitness test scores will be recorded on each trainee.
- (b) The DI or Company Commander will keep a daily training check list log (Appendix IV) to be picked up twice weekly at random times to assure logs are truly kept on a daily basis.
- (c) All injuries and illnesses will be documented by screening of all medical records. All cases of lower limb pain

- will be treated according to the Stress Fracture Algorhythm (Appendix V).
- (d) All discharges (medical, EPTS, ELS) and recycles will be documented.
- (3) Phase 3: Advanced Individual Training 2nd follow-up period.
  - (a) Record initial and final PT test performance.
- (b) Have Commanders document unit level physical training in AIT with check list log (same as Appendix IV).
- (c) Follow medical records of subjects after BT through end of AIT for injuries and illness.
  - (d) Document administrative outcomes.
  - (4) Phase 4: Analysis.
- (a) Univariat Company vs. company chi square test of: fitness within each company, contrast injury experience of different quartiles of performance using partitioned chi squares.
  - (b) Multivariate analysis
- (1-1) MH-CHI SQ stratified on age, race, and flexibility of foot, or same variables in a logistic regression model.
- (2-2) Survival analysis conditional on age, race flexibility.
  - (c) Debriefing Post HQ, TRADOC HQ, MRDC HQ.
- b. Impact: This study will be conducted through the cooperative efforts and use currently available resources of USATC, Fort Bliss, and the Orthopaedic Service, Nuclear Medicine Service and Department of Clinical Investigation of WBAMC. This plan has been fully coordinated with all involved activities. A concerted effort will be made to minimize disruption of routine training center activities and of the processing and training of individual trainees.

#### 8. PLAN:

- a. Selection of Subjects:
- (1) Number of subjects: 12 Basic Training Companies (approximately 1200 trainees). Volunteers will be sought; experience from June 1988 and November 1988 technical studies suggest a 90-100% volunteer rate.

- b. Sex: Male
- c. Diagnostic criteria for entry into study: healthy male individual entering basic training.
- d. Evaluation prior to entry: A briefing for this study will be conducted at the end of fill week. Trainees will sign an informed consent (Appendix VIII) for participation in this study. Complete form in Appendix III, and Complete Pre-screening Exam in Appendix II.
  - e. Exclusion Criteria: None
  - f. Subject Identification: SSN
  - g. Source of Subjects: 67th AG Battalion, Fort Bliss, TX
- h. Subject Assignment: Training Company Commander will draw lots at the beginning of training cycle to determine which of the following four training standards will be used: progressive, rest week 2, rest week 3, decrease number of miles.
- i. Risk to Subjects: No anticipated risk other than the generalized risk trainees are exposed to in basic training. There is a minor risk associated with pre-screening. For those trainees presenting with limb pain the diagnostic protocol for bone pain (Appendix V) will be followed. Bone scans will be done only on individuals where clinically indicated according to this protocol. The risks of bone scans are extremely low and are necessary to document the location and severity of the stress reactions so that appropriate treatment may be prescribed.
  - j. Precautions to Eliminate Risk: Not applicable.
- k. Medical or Nursing Care: All trainees will receive appropriate medical treatment for any injury or illness incurred during basic training by reporting to Sick Call at Fort Bliss or referred to WBAMC clinics.
  - Project Medication(s) or Device(s): None
- 9. DATA ANALYSIS: Will be done on 2 levels.
- a. Company level "crude" analysis: For each company the following data will be recorded and evaluated:
  - (1) Risk of injury/stress fx/stress reaction.
  - (2) Risk of illness, URI/other.
  - (3) Training days/trainee/day
  - (4) Entry level fitness PT/survey (average)

- (5) Entry level of fitness BCT/AIT change fitness
- (6) Entry level activity questionnaire (average)
- (7) Training logs/company
- (8) Age, race, occupational background (work experience)
  - (9) Graduation/discharge/recycle
  - Stratified multivariate Analysis
- (1) MH-CHI SQ stratified on age, race, flexibility, activity for each company.
  - (2) Stratified (merged data basis) i - Control X2 vs 2, 3, 4 ii - Rest 2nd week X2 vs 3, 4 iii - Rest 3rd week X2 vs 4 iv - Training 3 days/week (v mileage)
- 5-6 Months minimum will be required for a fulltime biostatistician/epidemiologist for analysis of the above collected data.
- 10. DEPARTURE FROM PROTOCOL FOR INDIVIDUAL TRAINEES: Will be strongly discouraged. Data on trainees hospitalized for illness other than stress related injury or who fail to complete training for administrative or academic reasons will be evaluated separately.
- MODIFICATION OF PROTOCOL: None are anticipated.
- 12. USE OF INFORMATION AND PUBLICATION ARISING FROM STUDY: final report of this study will be initially sent to the Commanding General of TRADOC, for his analysis and review. With his concurrence, this report will then be submitted to Military Medicine for publication. Post HQ, MRDC HQ will also be informed of the results of this study.

#### 13. FUNDING IMPLICATIONS:

	Biomedical Engineer	\$50,000/annum
(Project Co		
	cian/epidemiologist	\$40,000/annum
Project Sec	retary (GS-5)	\$20,000/annum
E3/E5	\$26,880\$31,137	5376 manhours
_		

Equipment: 2 dedicated PC's with 40 MEG \$ 8,000.00 each Math co processor Software Word Processing

\$ 4,000.00 each

Travel:
Present findings at HQ TRADOC
Present finding at professional mtg

P 44 4.

\$1,000/annum \$1,000/annum

• .		GREEMENT AFFIDAVIT
		ACT ACT OF 1874
Authority:	10 USC 2012, 44 USC 3181, and 18 US	C 1671-1087.
Principle Purpose	To document voluntary participation in the	Chapel breakpaton and Research Program. 86N and Bones authors will be
Bautine Unes:		to trianglement and locating purposes. Information derived from the study
	ard be used to document the study, imple	municision of medical programs, adjustication of planns; and for the mandalory I by bre. Intermetion may be furnished to Federal, Shale and least agencies.
Disclosure:	The furnishing of your BSN and home add if future information indicates that your preclude your voluntary personation in the	free is mandatory and receivery to provide identification and to contact you hearth may be solverary principal. Fellure to provide the información awy a investigational study
	PART A(1) • 1	YOLUNTEER AFFIDAYIT
Volunteer Subjec	23 In Approved Department of the A	Party Recognith Studies
	or the provisions of AR 40-38 and AR a result of their participation in such stud	70-25 are authorized all necessary medical care for injury or disease less.
<b>t</b>	·	, <b>\$</b> \$N
having tell capacity to	• • • • • • • • • • • • • • • • • • • •	tirTidey, do hereby volunteer/give consent as legal
representative for		to pericipate in
		ough Modification of Basic Combat Training
Physical Tra	aining Activities Based	on Biodynamics (Part I)
under the direction of	Colonel Thomas J. Sc	ully, MC
conducted at	lliam Beaumont Army Med	ical Center
Colonel Scul	11y	inces and hizzards that may resionably be expected have been explained
and complete estima	ction. Should any further questions at	I the investoeschal audy. Any auch questions were answered to my Mil- see concerning my rights/the rights of the person I represent on study-
Staff Judge		
		nter, El Paso, TX 915= 569-2236/2280
william be		nter, El Paso, IX 913= 369-2236/2260
withdrawn from the a volumeer) or reques examinations are neo	Mudy without further penelty or loss o ted (chillian volunteer) to underso o	his study revoke my consent and withdrawhave the person I represent if benefits, however, little person I represent may be required (makery strain ealministion it, in the opinion of the abording physician, such health and well-being. My/the person I represent a reliated to personate rison I represent is otherwise enabled.
	Part a (2) - Assert voi	LINTEER AFFIDAVIT (MINOR CHED)
1		having tal
		briticay, do nereby volument for
		to participate in
under the direction of		
නත්යක් a		
	·	d individual
	Cont	inue an Aevarse;

DA FORM 5303-R, MAY 88

PART A(2) - ASSENT VOLUM	ITEER AFFIDAVIT (MW	OR CHILD) (Confe.)
The implications of my voluntary participation; the nature, which it is to be conducted, and the inconveniences and he	duration and purpose of cards that may reasonable	the research study, the methods and means by y be expected have been explained to me by
I have been given an opportunity to ask questions concern and complete sensitiosion. Should any further questions an	ing this investigational states concerning my rights I	by. Any such questions were answered to my LE may contact
And the second sections and the	ore Secretar of Prosperior Street,	D 4-10 Carlot
If understand that I may at any time during the course of genety or loss of benefics, however, I may be requested anoth examinations are necessary for my health and well-be which I am otherwise analist.	o underso certain exemi	ation II. In the coincid of the abunding shwaring.
PART 8 - TO BE C	OMPLETED BY MIVEST	TOATOR
PATTRUCTIONS FOR BLEMBITS OF INFORMED COMBBIT. (F AR. 78-35.)	Number a descript angles of	ion in accordance with Appendix E, AR 45-30 or
You are being asked to volunteer relationship between physical fitness, to the muscles and skeleton) injufractures in particular will be recompanies training trainees like yo modified with the intention of p modification will be less running and	and training a pries during in corded and fo urselves will b reventing stre	and musculoskeletal (pertaining litial Army training. Stress cllowed. Also, some of the e conducting training that is
The first part of this study will begin training. For this portion of questionnaire. The questionnaire will recreation, and physical training previous injuries that have signific normal daily activities.	f the study, you l ask about you activities. Al	u will be asked to fill out a ir past participation in sports, so, you will be asked about
During this first part of the study, body, such as height and weight, a touching your toes and lifting an questionnaire and the measurements	and your ability object and n	to perform simple tasks like neasuring of your feet. The
i do do not ( ) (check one & initial) cor treatment record.	teent to the inclusion (	of this form in my outpatient medical
BIONATUPE OF VOLUNTEER	DATE	BONATURE OF LEGAL QUARCHAN & visioner is

REVERSE OF DA FORM \$303-R, MAY 88 -

PERSONAL ACCRESS OF VOLUNTIES

DATE

No further measurements will be made on you after the first part of the study. During your One Station Unit Training or Basic Combat Training we will record your performance on all Army Physical Fitness tests for comparison with your listing of fitness on the questionnaire. Also, we will record all visits that you make for medical attention for injuries or illness during this initial training period in the Army. You may also be asked to keep a diary of your training.

Number of Trainees to be studied: 1200.

Benefits: The results of this study are unlikely to be of direct benefit to you. However, they should be of benefit to the Army in determining what aspects of physical training contribute most to the likelihood of musculoskeletal injuries, and also those which contribute most to the development of fitness.

Risks: No significant risks associated with participating in this study are expected.

DURATION OF STUDY: 24 months

EXPECTED DURATION OF SUBJECTS PARTICIPATION: 1-2 hours

ASSURANCE OF CONFIDENTIALITY: During the course of your inprocessing here at Ft. Bliss and during this briefing you have been provided a copy of the Privacy Act Statement (DD Form 2005) which has made you aware of the safeguards available because of the privacy Act of 1974. You have been given the opportunity to review the DD Form 2005, ask questions, and retain a personal copy. You have been made aware that the information gained because of your participation in this study may be publicized in the medical literature, discussed as an educational model, and used generally in the furtherance of medical science. Information gained from this study may be used as part of a scientific publication in medical or professional journals, but you will in no way be personally identified. The records, however, may be reviewed by personnel of Food and Drug Administration.

SIGNIFICANT NEW FINDINGS: Any significant new findings developed during the course of this study will be available to you upon request.

FOR INFORMATION REGARDING THE RIGHTS OF STUDY SUBJECTS, CONTACT THE STAFF JUDGE ADVOCATE, WILLIAM BEAUMONT ARMY MEDICAL CENTER (569-2236/2280).

PARTICIPATION IN THIS STUDY IS VOLUNTARY. REFUSAL TO PARTICIPATE WILL INVOLVE NO PENALTY OR LOSS OF BENEFITS TO WHICH YOU ARE OTHERWISE ENTITLED. YOU MAY DISCONTINUE PARTICIPATION AT ANY TIME WITHOUT PENALTY OR LOSS OF YOUR ENTITLED BENEFITS.

You will also be provided a copy of this volunteer agreement for your files at this time.

GNATURE OF VOLUNTEER	DATE SIGNED	to a minor)	SIGNATURE OF LEGAL GUARDIAN (If volunteer to a minor)	
HANENT ADDRESS OF VOLUNTZER	TYPED OR PRINTED NAM WITNESS	E AND SIGNATURE OF	DATE BIGNED	

#### 14. DATE PREPARED: 8 February 1989

$\sim$ $\sim$ $\sim$	
Thomas Deully	9 Feb 89
rincipal Investigator	Date

Chief. Department of Surgery Date

Chief, Department of Clinical Investigation Date

# STREES FRACTURES - COSTS OF: TOTAL COSTS - U.S. ARMY FY87S (SUMMARY)

RECEPTION STATION	7,647,595.2			
REPEAT TRAINING	1,603,808.0			
TRADOC TOTAL	9,251,403.2			
HSC TOTAL	2,136,027.1			
TOTAL U.S. ARMY	\$11,387,430.3	F::37S		

......

#### - HSC COSTS - FY87\$

#### OUTPATIENT MEDICAL COSTS/SOLDIER

2 - TMC visits (\$25.00@)	E	50.00 - FY86\$
3 - Ortho visits (\$66.67@)	=	200.01 - FY86\$
2 - Area studies XR	=	16.52 - FY86S
1 - Bone scan	=	100.00 - FY86\$
		$\$366.53 \times 1.03147 = \$378.06 \text{ FY87S}$

## TOTAL OUTPATIENT MEDICAL COSTS #STRESS INJURIES

FT BENNING FT BLISS FT DIX FT JACKSON FT KNOX FT LEONARDWOOD FT McCLELLAN FT SILL	464.7 99.6 417.9 446.6 351.1 404.4 249.6 250.7	x x x x x x x	378.06 378.06 378.06 378.06 378.06 378.06 378.06 378.06	= = = = =	175,684.48 37,654.78 157,991.27 168,841.60 132,736.87 152,887.46 94,363.77 94,779.64
TOTALS	2,684.6			S]	.014.939.87

#### HSC COSTS - FY87\$ (Cant'd)

#### INPATIENT MEDICAL COSTS/SOLDIER

- 1 Hospital Day (WBAMC) = \$333.28 FY87\$
- **x** Hospital Stay = 11 days = \$3666.08

#### TOTAL INPATIENT MEDICAL COSTS

FT	BENNING	52.9	x	3666.08	=	193935.63
FT	BLISS	11.3	x	3666.08	=	41426.70
FT	DIX	47.6	x	3666.08	=	174505.41
FT	JACKSON	50.9	×	3666.08	=	186603.47
FT	KNOX	40.0	x	3666.08	=	146643.20
FT	LEONARDWOOD	46.1	x	3666.08	=	169006.29
FT	McCLELLAN	28.4	×	3666.08	. =	104116.67
FT	SILL	<u>28.6</u>	x	3666.08	=	104849.89
		305.8			\$]	,121,087.26

#### HSC COST SUMMARY

TOTAL CUIPATIENT MED COSTS	\$1,014,939.87
TOTAL INPATIENT MED COSTS	1,121,087.26
TOTAL	\$2,136,027.13

#### RECYCLE REPEAT TRAINING COST

	TPTS NAK	TVIS WK	TCS/MK	(EGRA)	TCS /AK EGRAD	79E	REPEAT TING CORTS BERAD	•REDICES	RECYCLE REPEAT ING CUST
ET BUSS FT MOX FT MOX FT MOXSON FT MOXSON FT MOXSON FT MOXEMAN FT SILL	1898191 8019427 7811266 7169281 10231920 7260625 4046761 4700912	5010981 15673615 10998250 16131026 18139819 19357422 11914015 5435291	7909272 23693042 28809516 23400307 28471739 26618047 15960776 13136203	6338 22343 29575 25738 28422 26599 15888 15956	1247.9 1060.4 974.1 909.2 1001.8 1000.7 1004.6 823.3	3 3 3 3 3 3 3	3743.7 3181.3 2922.4 2727.5 3005.2 3002.1 3013.7 2469.8	20.2 71.1 94.1 81.9 90.4 84.6 50.6	75622.5 226188.3 274993.3 223383.9 271674.6 253981.7 152495.3 125467.4
TOTALS				170859				543.7	1603808

-

# HUBILIN SIMIN O'EIS

	PUZHIA BATRE	PRUTTES	Л <b>С\$∕</b> ИЕС: STA	FRAHID	UV\$/H:HV\$	ss S	TH SZHERAD PRE STA STAY	HIJT STA STAY DAY	HIT STA RESTERNI STAY DAY HIT STA	LAYS HOYAR FORTOD	TPS COPAD OPENIANS GOOD PER STA CONTRACTOR C	4 M.Y. 11.82.	5,140 50 SIA 15.18
FT m.188	5#1	9625	3075814	#1 T	485.3	9,09	1161.3	_	1.7E	2	16,548.2	70.7	124415.6
Y KNOY		B1.717	0026150	27.141	. T 88	9	1141.3	-	147.1	7	14578.1		14 15501.7
initiality	(R) TRADE	AFA)		2')'. /'5			•y10.0	~	JE ). )	¥	12740.0	-: -:	1198414.0
FT LINERARED	THO THANK	NIA)		25.7.IB			0.016	_	301.3	~	17740.0	5. ₹	0.411416.0
I'T JAKEN	<u>-</u>	25.11	95 96.061	284.2	524.6	673	1197.6	_	199.2	~	16766.1	7.5	5.15,65.B. 3
T = X	23	1449	8521006	26:149	120.4	591	9.11.€	-	80 J. B	~	127'18.9	91.5	11110111.7
IT RATIFIEM	<u>.</u>	17,22	5709528	-:-IHE	¥:1:4	?;	₹. 1.	-	8.1.3	~	1275.1	5¢6	6.456018.2
11 :: 17	77	90102	10667108	1,71,14,	fit.H.S	<b>4</b> .6	11.74.5	_	174.8	<b>~</b>	15741.5	F. 0.	1.19 16.7.7
THAIS				P.1811.9									16.475.95.2

MERCHETT ANDREW TRIAL CREES HEVER BENTHEN CHAINS

•

#### ST/OSUT FOOD TRAINING COSTS - FT RNOX

was no sum where	€2875E.	FCS/GAL*	TECS/MOS	TENGTH.	MOS TECNIK	BASIC ING WEEKS	MOS TITO BIT! BAKE
TEO-at	10066	2609	26262194		3282744.25	•	
751-87-30TC	2246	106	6332946	÷		5	
ופבוני אנום כאי פכטנד	2417			•	1055491.00	8	
17010 ML13 DAV SCOUT-ST(7H1)		5643	13639131	13	1049163.32	8	•
	184	2630	<b>48</b> 3920	8	60490.00	8	
Table ATTS CAN SCORE-SEASES	101	1959	197859	6	32976.50	. в	
19010 AS BADITALICAN CAN	422	5109	2104908	14	150350.57	Ā	
19010 MS BRADILEY/CEV CAVIST)	14	2928	40992	Ä	5124.00	ă	
19E10 M60AL ARMOR CM	2091	5494	11.487954	14	<b>82</b> 0568.14		
19E10 M60A1 ARMOR DHST (PH1)	31C	2626	814060	• • • • • • • • • • • • • • • • • • • •	101757.50	9	
19E10 MEGAL ARMOR CH-ST(PH2)	105	1959	382005	ž		8	
19E10 M60A3 ARMOR CM	2107	5497			63667.50	8	
19E10 M60A3 ARMOR CH-ST(PH1)	118		11582179	14	827298.50	8	
19E10 MSCA3 APMER CH-ST(PH2)		4797	566046	8	70755.75	а	_
	<u> </u>	5166	248487	6	41414.50	8	
19K10 MI ABRAMS ARMOR CM	950	6631	6365760	14	454697.14	Ř	
PRIO MI ABPAMS ARMOR CH-ST(FRI)	7	2603	18221	Ř	2277.63		
PK10 MI ABRAMS ARMOR CH-ST(FH2)	2	1951	3902	. 6	650.33	8	
TOTALS	22343				<b>9</b> 019427 23		

#### BT/OSUT VARIABLE TRAINING COSTS - FT RNCX

USATO THE SITE COURSES	438ADED*	FCS/GRAD*	TFCS/MOE	COURSE LENGTH*	MOS OFFICIAN	BASIC ING	903 TTC 87 Sec
750-2T	10066	5612	56490292	٠.	********		
751-8T-ROTC	3246 .	5612	18216552	•		8	
19010 ML13 CAV SCCUT	2417	5612		8	2277069	8	
19010 M113 CAV SCOUT-ST(PH1)			13564204	8	1695526	8	
	184	5612	1032608	8	129076	8	
19D10 ML13 CAV SCOUT-ST(PH2)	101	5612	<b>56</b> 6812	В	70852	8	
19010 ME BRADIZY CTV CAV	412	5612	2312144	8	289018	8	
19D10 MB BRADLEY (CFV CAV(ST)	14	5612	78568	8	9821	Ď	
19E10 M60A1 ARMOR CM	5031	5612	11734692	Ř	1466837		
19E10 M60Al ARMOR CH-ST (PH1)	319	5612	1739720	ě	227465	9	
19E10 M6CA1 ARMOR CH-ST(PH2)	195	5612	1094240	ě		•	
19ELC MECAS ARMOR CM	21.07	5612	11824484		136793	8	
19E10 MEGAS ARMER CH-ST(PH1)	118	5612			1478061	8	
13E10 M60A3 ARMOR CH-ST(PH2)			662216	8	82777	8	
	113	5612	634156	8	7 <del>9</del> 270	8	
10 ML ABRAMS ARMOR CM	√ <del>3</del> 60	5612	5387520	8	673440	8	
10 ML ABRAMS ARMOR CM-ST(PH1)	7	5612	39284	8	4911	9	
K10 ML ABRAMS ARMOR CH-ST(PH2)	2	5612	11224	8	1403	ě	
TOTALS	22343				15672615		

#### STORET FORD BRANCH COSTS - FT BENDE

esam and sine anders	•TRADEE•	FDS-GRAD*	TECS HOS	CCURSE LENGTH:	905 (350) PSK	Basic two Weeks	406 क्वाउ 27(86(द)
11810 11010 11810 11811	22453 3558 2511 353	3284 3098 3696 13993	73735652 11022684 11848590 4939529	13 13 12 13	5671973.21 847898.77 911430.00 979963.77	e 8 9	45375785.85 6783190.15 7291440.00 3039710.15
TOTALS	295.75	ಕಾ ಆದ ಇ	ruble wadida d	STS - FT 328:1	7611165.75 XG		
WATE DIE STEE MANSE	•247E.	PCS-GRAD*	TECS. MOS	CTUREE LENGTH:	MES TYPO/ME	gasio da Wedas	MOS TETOS ST(Serve)
13:00 11:00 11:00 11:00	22453 3558 3231 253	**5680 **5680 **5680	127532040 20209440 18228480 2005040	8 8 8	15941630 2516180 279810 20530	8 8 8 8	
2024	29575				20779250		

<sup>\*\*</sup>PANDON WEIGHTED AVERAGE VARIABLE COST WITH STEEDT PAY OF BASIC TRAINING PER BERAD

#### ST/CEUT FIXED TRAINING COSTS - FT LEONARCHOOD

ತನ್ನು ಪ್ರಕ್ಷಣಗಳನ್ನು	<b>1</b> ₹₩₽₩₽	PCS GRAC*	ZECZY WOE	COURSE LENGTH*	YES THE WK	Basic D.G Weeks	908 (3708 801(94kg)
750-97 12810 APPAT SNA 12010 BRIXE SPEC	17468 7233 1037	22 15 36 4 1 38 4 9	38691620 26335353 3991413	8 13 13	4816452.5 2018796.4 207031.8	8 8 8	
TOTALS	25738				7169280.7		
		et osut vari	ABLE TRAINING COST	s - FT LEONAR	:WOOD:		
USATE THE SITE COURSES	(TANE)	FCS, GRAD*	205/MDS	COURSE LENGTH!	NCE TEC.WK	BASIC THE WEEKS	MOS TETOS BT: Saks)
30- <del>91</del>	17468	5045	88125060	8	11015757.5	8	
IB10 COMBAT EXCR	7233	50.45	36490485	8	4561310.6	ě	
.2010 BF 1352 SF 55	1037	5045	5231665	8	553958.1	8	
ನರಸಚ	25.738	•			16771826.2		

#### BT/GEUT FIXED TRAINING COSTS - FT JACKSON

USATO THE SITE COURSES	PRAINED.	RCS/GRAD*	TETCS, MOS	COURSE LENGTH®	MOS TEPS./WK	BASIC ING	MOS TPOS BT : Backs 1
750-97 TOTALS	28422 28422	<b>288</b> 0	81855360 81855360	8	10231920.00 10231920.00	8	91855360 81855360

#### BIT OBUT VARIABLE TRAINING COSTS - FIT JACKSON

NIC THE SITE THESE	*TRAINED*	FCS GRAD*	TECS / MOS	COURSE LENGTH®	MOS TITO, WK	BASIC ING STEEKS	MOS TROS BT: 84ks
750-BT	28422	5134	145918548	8	18239818.50	8	145 9185 48
TOTALS	28422		145918548		18239818.50		145918548

#### BT. CEUT FIDED TRAINING COSTS - FT DIK

क्षत्रकात साह वस सम्ब	*26755.	FCS. GRAD*	TECS, MOS	TSALLA. COCASE	MOS TETO, NAK	Basic TNG Weeks	MOS TIFOS BT (Buks)
20-81:21) 20-81:	23610 2989	2198 2071	51894780 6190219	<b>8</b> 8	5486847.50 773777.38	8 8	51894780 6190219
TOTALS	26399		58084999		7250624.98		58084999

#### RE CELL ANTHREE BYDING CORE - LE DEN

क्रमा कि शास क्राह्म	•202020•	೯೮೨, ಡಾಬಿಕ	TECS/HOS	COURSE LENGTE®	MOS TEYC/WK	Basic ing Wienes	MOS TEOS BE(Buks)
750-871 750-871(ST)	23610 2989	5812 5821	137457420 17401958	<b>8</b>	17182177.50 2175244.75	8	137457420 17401958
enance of the second	16899		134659378		19357422.25		154659176

#### BT/CECT FIXED TRAINING COSTS - FT McCLELLEN

USATO ING SITE COURSES	♦TRAINED*	FCS, GAD*	TECS/MOS :	COURSE LENGTH*	MES TECNAR	BASIC TNG	MOS 7775 27 (2445)
750-37 952:0 952:0	8264 7412 212	1887 4305 3389	15594168 31908663 718468	8 15.6 13.8	1949271 2045427 52063	9 9 8	
70242	15888				4046761		•

#### STOCKUT WARLABLE TRAINIDE DOTS - FT MODIFILM

USANO DIO SITTE COLRECTE	*TADED*	FCS, GRAD*	TROS MOS	COURSE LENGTH*	MOS TEC/WK	easid ing Freeks	MOS (7705 27 3445)
#11 #11 #211	9264 7412 222	1939 1939 1900	49575736 44464588 1271788	9 9 8	619696T 5559074 155974	6 6 6	
	15888				11914015		

#### STOCKUT FENCED TRAINING COSTS - FT SILL

ಜನಗು ೨೮ ನಗ ಮಾಡ	. arde.	FCS: GAD*	TTCS, MOE	ವಾಯಿಕ. ದ್ಯುತ್ತ	MOS TOTOLAR	BASIC ING	MOS TITOS ST(Builds)
ST 10810 FA DANON DM 10810 DANON FIRE DDR 10810 DANON FIRE REPT SEC 10810 MAS DAMONER 10910 LANCE WELL DM 10810 PERSHDIG WELL DM 10810 PERSHDIG WELL DM 10810 PERSHDIG WELL DM	2894 8451 729 1746 488 470 516 661	2253 2851 4100 4132 4095 4154 4120 5873	6549122 32548652 2988900 7214472 1998360 1951280 2105970 3882053	8 12 14 14 14 14 14 14 15 15 15 15 15 15 15 15 15 15 15 15 15	818640.25 2513742.46 211492.86 515119.43 142740.00 139455.71 151851.43 21559.61	6 8 8 8 8	6549122.0 20029939.7 1767942.9 4122555.4 1141920.0 1115645.7 1214811.4 1725156.9
7000	:5956		59259859		4703211.75		

#### ST. CEUT WARDABLE TRADICNO COSTS - FT SILL

was no sin alka	• 342752°	ನ್ಯಾಡಬ್	TECS: MOS	ದಿಗಳು ಬಾಲಕ	MOS (200. WK	BASIC THG SMEEKS	MOS 7770\$ 971 8445 :
ET 10910 FA DANON DE 10910 FA DANON DE 10910 PASSON FUE DE 10910 FA FUE STET SEE 10910 PASSON 15010 PASSON SEE DE 15010 PASSON SEE DE 15010 FA SERVEYOF	2894 3451 -15 1-46 488 471 516 661	6229 6229 6219 6219 6229 6229	18345066 53577218 4621231 11167594 3033412 2979330 3270924 4190079	8 13 14 14 14 14 14 14	2293133.25 411135.22 311135.79 791563.36 201393.41 21193.42 221637.43 221782.17	8 8 8 8	
TOTALS	15956				₩35291.Œ		

#### AFFENDIX IIa

# ANTHROPOMETRIC MEASUREMENTS MALE DATA COLLECTION FORM

SUBJECT NUMBER	_		
LAST NAME	FIRST N	AMEMI	
ssn	AGE	RACE	
HEIGHT	cm	WEIGHT	k
STRENGTH			
FLEXIBILITY		·	
CIRCUMF	ERENCE MEAS	SUREMENTS	
NECK			
ABDOMEN			

#### AFFENDIX IIb

# PRE-ENTRY HEIGHTS AND WEIGHTS FROM MEPS PHYSICAL

		COM	ANY		DATE	SCREENED	''	
	NAME (LAST	F,	MI)	SSN (LAST 4)	DATE OF EXAM	AGE RACE	HEIGHT (INCHES)	WEIGHT (LBS)
1			/	/	''	!	/	/
				/			/	
3			/	/	''	'	/	/
4			/	/	//	/	/	/
5			/	/	//	/	/	/
5			/	/	''	/	/	/
				/				
				'				
				/				
				/				
				/				
				/				
				/				

#### APPENDIX III

U.S. ARMY BASIC TRAINEE - INJURY AND ILLNESS STUDY BACKGROUND INFORMATION TODAY'S DATE (M/D/Y): NAME: SIGNATURE: SSN: \_\_\_\_ AGE: \_\_\_ HEIGHT: \_\_\_ WEIGHT: \_\_\_\_ RACE: WHITE BLACK HISP ASIAN For questions A thru H, please CIRCLE the appropriate answers. A. In regard to your OVERALL PHYSICAL ACTIVITY how would you describe your life during the past year INACTIVE 2. NOT VERY ACTIVE 3. AVERAGE ACTIVE 4. 5. VERY ACTIVE Compare to others your age and sex, how would you RATE YOUR PHYSICAL FITNESS: 1. POOR 2. BELOW AVERAGE 3. AVERAGE ABOVE AVERAGE 4. 5. EXCELLENT C. During the past month, how often did you RUN or JOG: 1. NEVER LESS THAN ONCE A WEEK 3. ABOUT ONCE A WEEK 2 or 3 TIMES A WEEK 4. 4 or MORE TIMES A WEEK D. When you ran or jogged, how many MINUTES (on average) did you ACTUALLY SPEND RUNNING OR JOGGING:

1

1.

3.

5.

DID NOT RUN OR JOG

20 to 30 MINUTES MORE THAN 30 MINUTES

LESS THAN 10 MINUTES

FROM 10 to less than 20 MINUTES

- E. Which description best MATCHES the LEVEL OF ACTIVITY required by your CIVILIAN JOB
- 1. SEDENTARY Lifting 10 lb maximum. Mostly involves sitting, with some walking and standing. Examples: Secretary, typing, bookkeeping, draftsman, lawyer or paralegal, bank clerk.
- 2. LIGHT WORK Lifting 20 lb maximum with frequent lifting or carrying light objects. Considerable walking or standing, or using of hands and arms. Examples: Retail sales, waiter, nurse, waitress, short order cook, service station attendant, manager.
- 3. MEDIUM WORK Lifting 50 lb maximum. Frequent lifting or carrying up to 25 lb. Examples: Machinist, bricklayer, carpenter, cook, shipping and receiving clerk, general mechanic.
- 4. HEAVY WORK Lifting 100 lb maximum. Frequent lifting or carrying up to 50 lb. Examples: Jackhammer operator, yard worker, frame carpenter, pipe fitter, Diesel mechanic.
- 5. VERY HEAVY WORK Lifting in excess of 100 lb. Frequent lifting/carrying 50 lb or more. Examples: Miner, laborer, plano mover, stonework occupations.
- F. In the past TWO WEEKS have you had: COLD or FLU FEVER NAUSEA VOMITING or DIARRHEA
- G. Do you currently have any PROBLEMS in these AREAS that LIMIT your DAILY ACTIVITIES? FEET ANKLES LEGS KNEES BACK
- H. Do you have FLAT FEET NORMAL ARCHES HIGH ARCHES
- I. In the past month, about how many digarettes per day have you smoked?
- J. Do you currently have any ILLNESSES or HEALTH PROBLEMS that LIMIT your DAILY ACTIVITIES? If yes, please list
- K. Are you currently on a PHYSICAL PROFILE restricting your military activities?
- L. Are you currently taking any MEDICATIONS? If yes, please list
- M. Have you ever had an INJURY or ILLNESS related to PHYSICAL ACTIVITY?

  Please explain and give dates for the three most recent events.

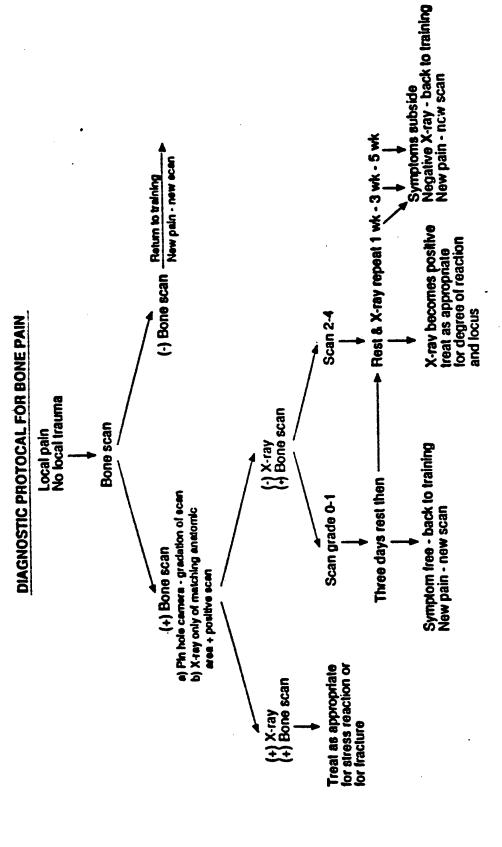
E. Which description best MATCHES the LEVEL OF ACTIVITY required by your CIVILIAN JOB

- 1. SEDENTARY Lifting 10 lb maximum. Mostly involves sitting, with some walking and standing. Examples: Secretary, typing, bookkeeping, draftsman, lawyer or paralegal, bank clerk.
- 2. LIGHT WORK Lifting 20 lb maximum with frequent lifting or carrying light objects. Considerable walking or standing, or using of hands and arms. Examples: Retail sales, waiter, nurse, waitress, short order cook, service station attendant, manager.
- 3. MEDIUM WORK Lifting 50 lb maximum. Frequent lifting or carrying up to 25 lb. Examples: Machinist, bricklayer, carpenter, cook, shipping and receiving clerk, general mechanic.
- 4. HEAVY WORK Lifting 100 lb maximum. Frequent lifting or carrying up to 50 lb. Examples: Jackhammer operator, yard worker, frame carpenter, pipe fitter, Diesel mechanic.
- 5. VERY HEAVY WORK Lifting in excess of 100 lb. Frequent lifting/carrying 50 lb or more. Examples: Miner, laborer, planc mover, stonework occupations.
- F. In the past TWO WEEKS have you had: COLD or FLU FEVER NAUSEA VOMITING or DIARRHEA
- G. Do you currently have any PROBLEMS in these AREAS that LIMIT your DAILY ACTIVITIES? FEET ANKLES LEGS KNEES BACK
- H. Do you have FLAT FEET NORMAL ARCHES HIGH ARCHES
- I. In the past month, about how many cigarettes per day have you smoked?
- J. Do you currently have any ILLNESSES or HEALTH PROBLEMS that LIMIT your DAILY ACTIVITIES? If yes, please list
- K. Are you currently on a PHYSICAL PROFILE restricting your military activities?
- L. Are you currently taking any MEDICATIONS? If yes, please list
- M. Have you ever had an INJURY or ILLNESS related to PHYSICAL ACTIVITY? \_\_\_\_ Please explain and give dates for the three most recent events.

## APPENDIX IV

DAILY TRA	INING LOG			DATE//								
WEEK O	F TRAINI	NG:	DAY OF WEEK: (	(DD MM YY) CIRCLE) M T W T	FSS							
COMPAN	Y:	PERS	SON COMPLETING LOG:									
	RAINING		Ţ	(NAME & RANK) TIME TRAINING								
	DAY STARTED: DAY ENDED: (HOUR)  WEATHER CONDITIONS: (HOUR)											
		ACTIV	VITIES FOR THE DAY:									
FOR THE	IED TRAI] E FOLLOW:	NING A ING LI	RAINING? ()YES ACTIVITIES ST OF ACTIVITIES CI FOR THOSE NOT PERFO	HECK 'YES' FOR T								
YES	NO	ACT	YIVITY	DURATION	DISTANCE							
( )	( )	1.	RUNNING	MIN	MILES							
( )	( )	2.	ROAD MARCH	MIN	MILES							
( )	( )	3.	BAYONET	MIN								
( )	( )	4.	PUGIL	MIN								
( )	( )	5.	HAND TO HAND	MIN								
( )	( )	6.	CONFIDENCE COURSE	MIN								
( )	( )	7.	OBSTACLE COURSE	MIN								
( )	( )	8.	DRILL & CEREMONY	MIN								
( )	( )	9.	STANDING FORMATION	NMIN								
( )	( )	10.	CALISTHENICS	MIN								
( )	( )	11.	STRETCHING	MIN	·							
( )	( )	12.	GAMES (PLEASE LIST	147.11								
				MIN								
( )	( )	13.	OTHER ACTIVITIES									
				MIN								

4 EF



.:

## APPENDIX VI

COMPANY:

			INJURIES:	MEDICAL F	RECORDS	REVII	EW		
			FT. BL	SS INJURY	STUDY	1989			
	NAME (LAST	MI)	DATE MO/DY/YR	DIAGNOSIS (INJURY)	ıc	R/L	BODY PART		
1		 	//		:	:		!	
2		 	//		!	:		:	
3		 	//		:	:		:	
4		 	//		:	1		:	
5		 	//		:	:		:	
6		 	//	~~~~~~	:	•		:	
7		 	''		!	:		:	
8		 	//		!			:	
9		 	//		:			:	
1 (	o	 	//		:	:		:	

#### HUMAN USE REVIEW COMMITTEE 5 April 1989

#### DECISIONS AND RECOMMENDATIONS

HURC #,369 "Prevention of stress fractures through modification of basic combat training activities", COL Thomas Scully, Principal Investigator, MAJ Bruce Jones, Responsible Investigator

- 1. The USARIEM Human Use Review Committee reviewed your proposed study at its meeting of 5 April 1989 and unanimously recommended its approval upon submission to and approval by the Commander, USARIEM, of a revised Volunteer Agreement Affidavit.
- 2. MAJ Jones was present during the initial discussion of this study and has recorded the corrections to the Volunteer Agreement Affidavit text.
- 3. All procedures to be employed as well as safety standards conform to the USARIEM Type Protocol on human research studies.
- 4. This study is judged as involving no more than minimal risk to the participating subjects.

Atch

OWARD G. KNUTTGEN, Pho

Chairman, HURC

## **FORT BLISS 1989 DATABASE**

# APPENDIX B QUESTIONNAIRE

# INITIAL ENTRY PHYSICAL ACTIVITY AND HEALTH QUESTIONNAIRE

0

In this questionnaire you will be asked about yourself and your lifestyle. This will include questions about how much exercise you do and any injuries you have had in the past. Read each question carefully and answer as accurately as possible.

			I. GENER	RAL QUEST	IONS		
NAME:_	LAST	FIRST		MI	Sex:	MALE	FEMALE
SSN: _			AGE:	HEIGHT:	(inches)	WEIGHT_	(pounds)
0 1 2 3 4 5 6 7 8 9			0 1 2 3 4 5 6 7 8 9	0 1 2 3 4 5 6 7 8 9	0 1/4 1/2 3/4	0 1 2 3 4 5 6 7 8	
UNIT:	Company 1 Company 2 Company 3 Company 4 Company 5	TODAY'S DA	0 1 2 3 4 5 6 7 8	(month) 0 1 1 2 2 3 4 4 4 5 5 6 6 7 7 8 8 9 9 9	(year)		
ADDRE	SS (Home of Record)	NUMBER		STREET	<del></del>	APT#	
CITY &	STATE			Z	IP CODE		

## II. PHYSICAL ACTIVITY AND PHYSICAL FITNESS 1. In regards to your OVERALL PHYSICAL ACTIVITY how would you describe your life compared to others of your age and sex? Very Very Active Inactive Inactive 2. Compared to others of your age and sex, how would you rate YOUR physical fitness? Excellent 3. Which description BEST MATCHES the LEVEL OF ACTIVITY required by your most recent CIVILIAN JOB. Mostly involves sitting, with some walking or standing. Examples: Secretary, typist, SEDENTARY book keeper, draftsman, lawyer or paralegal, bank clerk, student. Considerable walking or standing, or using of hands and arms. Examples: Retail salesperson, LIGHT WORK waiter, nurse, waitress, short order cook, service station attendant, manager. Frequent lifting or carrying up to 25 pounds. Examples: Machinist, bricklayer, carpenter, **MEDIUM WORK** cook, shipping and receiving clerk, general mechanic. Frequent lifting or carrying up to 50 pounds. Examples: Jackhammer operator, yard worker, **HEAVY WORK** frame carpenter, pipe fitter, diesel mechanic. Frequent lifting or carrying 50 pounds or more. Examples: Miner, laborer, **VERY HEAVY WORK** piano mover, stoneworker. III. PAST INJURIES 1. Have you ever suffered an injury or accident that resulted in your missing work or school? INJURY 89 88 87 86 85 85 If YES mark the appropriate year(s) and list the most recent injury(s)

								0	FFK	æ	JSE	ON	LY								
	1	2	3	4	5	8	7		1		0 1	1 1	2 1	3 1	<u> </u>	5 11	3 17	18	11	20	2
										П				l	1	1	1	1			
•		<u> </u>	<u> </u>		ļ	_	<u> </u>	Ļ	⊢	┞	├	<del> </del>	├	<del> </del>	⊢		-	-	-	Н	Н
		l				1	ı	l	1	1	1	1	1		1		i .	1	]		ı
*2					100000	2000	35000	0000	0.500	00000	1.55	1	3884	12.00	00000	0000	-3666	diese.	466	1000	٠

PAGE 2 OF 6

NO

III. PAST	INJURIES
2. Have you ever had an injury(s) or accident(s) that required	SURGERY to repair the damage?
YES If YES mark the appropriate year(s) a the most recent injury(s).	and list 89 88 87 86 85 85
	OFFICE USE ONLY  1 2 3 4 5 6 7 8 8 10 11 12 13 14 15 16 17 18 19 20 21  81  82
3. Have you ever had an accident(s) or injury (s) that cause	ed you to be in the HOSPITAL OVERNIGHT?
If YES mark the appropriate year(s) at the most recent injury(s).	89 88 87 86 85 85 INJURY
	OFFICE USE ONLY  1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21  #1 #2 #2 #2 #2 #2 #2 #2 #2 #2 #2 #2 #2 #2
4. Have you ever injured any of the following body parts?  and list the most recent injury.  YES NO	f YES mark the body part injured, the year the injury occurred  89 88 87 86 85 85 85 1NJURY
LOWER BACK LEGS FEET ARMS OR TRUNK	
	OFFICE USE ONLY  1 2 3 4 5 8 7 8 8 10 11 12 13 14 18 16 17 18 19 20 21  #1
5. Have you ever had a sprained ankle that restricted what	before
YES If YES, mark which side, and the year.	RIGHT LEFT BOTH 89 88 87 86 85 85  Sprain #1  Sprain #2

PAGE 3 OF 6

AND AND THE SECOND STATE OF THE SECOND STATE O		ture the process	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	- Santin		3
			7894	1	<b>=</b> -	•
<b>O</b>	SUGNEY VETMORKM					ı

6. Have you ever suffered a sports or exercise related injury that caused you to	o miss at least one day of physical
activity or work?	BEFORE INJURY 89 88 87 86 85 85
YES If YES, mark the appropriate year(s) and list	
No the most recent ones.	
1 2 2 4 5 6	OFFICE USE ONLY 7 8 0 10 11 12 13 14 15 16 17 18 19 20 21
7. Have you ever suffered a HEAT or COLD Injury?	
	9EFORE INJURY g
YES, HEAT If YES, mark the appropriate year and list	
YES, COLD the most recent ones.	
1 2 3 4 5 \$	OFFICE USE CNLY 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21
IV. ILLNESSES	
In the PAST TWO WEEKS, have you had:	
YES NO YES NO	•
Cold Nausea	
Flu Vomiting	1
Fever Diarrhea	
2. Have you ever been hospitalized overnight for treatment of a serious illness o	
·	BEFORE ILLNESS 89 88 87 86 85 85
YES If YES, mark the appropriate year and list	
No the most recent ones.	
1 2 3 A 5 6	OFFICE USE ONLY 7 8 8 10 11 12 15 14 15 16 17 18 18 20 21
V. EXERCISE AND SPORTS IN THE LAST	r month .
V. EXERCISE AND SPORTS IN THE LAST  1. How often did you exercise or play sports for 15 minutes or more (OTHER THE last month prior to coming into the army?	•
How often did you exercise or play sports for 15 minutes or more (OTHER The last month prior to coming into the army?	•
How often did you exercise or play sports for 15 minutes or more (OTHER The last month prior to coming into the army?      NONE IN THE LAST MONTH      LESS THAN ONCE PER WEEK      4 OR MORE TIMES PER WEEK	HAN RUNNING OR JOGGING) in the
How often did you exercise or play sports for 15 minutes or more (OTHER The last month prior to coming into the army?      NONE IN THE LAST MONTH      LESS THAN ONCE PER WEEK      4 OR MORE TIMES PER WEEK	HAN RUNNING OR JOGGING) in the

SURVEY NETWORK™

form Number 75020-5-72

2.	During the	PAST MONTH	l, how often di	id you run o	r jog?	
	Nover	Less than once a week	About once a week	2 or 3 times a week	4 or more times a week	
3.	When you	ran or jogged,	how many MI	NUTES (on	average) did yo	ou <u>ACTUALLY SPEND</u> running or jogging?
	Did not run or jog	Lees than 10 min	Between 10 and 20 min	20 to 30 minutes	More than 30 min	
4.	If you exer		ning or jogging	ı) in the last	month, how ma	nny minutes did you exercise each time,
	Did not exercise	Less than 10 min	Between 10 and 20 min	20 to 30 minutes	More than 30 min	
5.	How many	y times did you		TH TRAININ		n 15 minutes in the last month?
	-	1 time per week 2 times per week				nore times per week
6.	Was <u>STR</u>			our exercis	e in the last mo	nth?
	-	<b>⊣</b> ′	rcise but did not stretch than haif of the tin			stretched more than half of the times I exercised always stretch

EXERCISE AND SPORTS IN THE LAST MONTH (continued)

PAGE 5 OF 6

Form Number 75020-5-72

SURVEY NETWORK™

VI. IVIIOUEL	
How would you classify your feet, compared to others	4. How would you classify your legs compared to others
of your age and sex?	of your age and sex?
. —	KNOCK KNEED
FLAT	
HIGH ARCHES	BOW LEGGED
NORMAL ARCHES	NORMAL
2. Are you?	
<del></del>	5. Are you?
RIGHT HANDED	RIGHT POOTED
LEFT HANDED	LEFT FOOTED
3 Do you have problems with your feet that sometimes	6. Do you have back pain that sometimes
cause you to limit your daily activities?	causes you to limit your daily activities?
	YES
YES	<u>                                     </u>
Ŭ NO	∐ NO
7. Compared to others of your age and sex, how would you	, I rate vour
POOR BELOW	ABOVE
AYERA	GE AVERAGE EXCELLENT
A. ENDURANCE	
B. SPRINT SPEED	
C. STRENGTH	
D. FLEXIBILITY	
	$\cdot$
9 Did you participate in variety enacts in high school or col	lene?
8. Did you participate in varsity sports in high school or col	DEFENE
	SPORT YES NO BEFORE 89 88 87 86 85 85
YES If YES, list the sport and mark whether	SPORT YES NO SO
	SPORT YES NO SO
YES If YES, list the sport and mark whether	SPORT YES NO 80 88 87 86 85 85  or not
YES If YES, list the sport and mark whether	SPORT YES NO SO
YES If YES, list the sport and mark whether	SPORT YES NO 80 88 87 86 85 85  or not
YES If YES, list the sport and mark whether	SPORT YES NO SO
YES If YES, list the sport and mark whether	SPORT YES NO SO
YES If YES, list the sport and mark whether	SPORT YES NO 89 88 87 86 85 85 OF NOT NOT
YES If YES, list the sport and mark whether of you lettered and the year you last letter	SPORT YES NO 89 88 87 86 85 85  OF NOT  SPICE USE ONLY  1 2 3 4 8 9 7 8 9 50 11 32 13 14 15 16 17 18 19 20 21  ### ### ### ### ### ### ### ### ### #
YES If YES, list the sport and mark whether of you lettered and the year you last letter the year year year.	SPORT YES NO 89 88 87 86 85 85  OF NOT  SPICE USE ONLY  1 2 3 4 8 9 7 8 9 50 11 32 13 14 15 16 17 18 19 20 21  ### ### ### ### ### ### ### ### ### #
YES If YES, list the sport and mark whether	SPORT YES NO 89 88 87 86 85 85  OF NOT  SPICE USE ONLY  1 2 3 4 8 9 7 8 9 50 11 32 13 14 15 16 17 18 19 20 21  ### ### ### ### ### ### ### ### ### #
YES If YES, list the sport and mark whether of you lettered and the year you last letter the year year year.	SPORT YES NO 89 88 87 86 85 85  OF NOT  SPICE USE ONLY  1 2 3 4 8 9 7 8 9 50 11 32 13 14 15 16 17 18 19 20 21  ### ### ### ### ### ### ### ### ### #
YES If YES, list the sport and mark whether of you lettered and the year you last letter  9. Which of the following statements BEST describes your statements whether of the smoked is the sport and mark whether of the second statements are smoked.	SPORT YES NO 89 88 87 86 85 85  OF NOT  SPICE USE ONLY  1 2 3 4 8 9 7 8 9 50 11 32 13 14 15 16 17 18 19 20 21  ### ### ### ### ### ### ### ### ### #
PES If YES, list the sport and mark whether of you lettered and the year you last letter of the following statements BEST describes your statements between the smoked but out.	SPORT YES NO 89 88 87 86 85 85  OF NOT  SPICE USE ONLY  1 2 3 4 8 9 7 8 9 50 11 32 13 14 15 16 17 18 19 20 21  ### ### ### ### ### ### ### ### ### #
9. Which of the following statements BEST describes your sometimes whether the sport and mark whether the year you last letter and your sometimes whether the year you last letter and your sometimes and the year you last letter and your sometimes and the year you last letter and your sometimes and the year you last letter and your sometimes and your sometimes and your sometimes and your sometimes are also sometimes and your sometimes and your sometimes are also sometimes and your sometimes and your sometimes are also sometimes are also sometimes are also sometimes and your sometimes are also sometimes.	SPORT YES NO 89 88 87 86 85 85  OF NOT  SPICE USE ONLY  1 2 3 4 8 9 7 8 9 50 11 32 13 14 15 16 17 18 19 20 21  ### ### ### ### ### ### ### ### ### #
9. Which of the following statements BEST describes your sometimes whether the sport and mark whether the sport and the year you last letter you lettered and the year you last letter sometimes.  9. Which of the following statements BEST describes your sometimes smoked but quitted smoked but quitted smoked less than 10 cigarettes per day smoked note than 20 cigarettes per day	SPORT YES NO 89 88 87 86 85 85  OF NOT  SPICE USE ONLY  1 2 3 4 8 9 7 8 9 50 11 32 13 14 15 16 17 18 19 20 21  ### ### ### ### ### ### ### ### ### #
9. Which of the following statements BEST describes your sometimes whether the sport and the year you last letter you lettered and the year you last letter you lettered and the year you last letter you lettered and the year you last letter your sometimes whether the year you last letter your sometimes whether your shocked but quit shocked but quit shocked less than 10 croarettes per day shocked more than 20 croarettes per day 10. What best describes your ethnic group?	SPORT YES NO SO
9. Which of the following statements BEST describes your sometimes whether the sport and the year you last letter you lettered and the year you last letter you lettered and the year you last letter you lettered and the year you last letter your sometimes whether the year you last letter your sometimes whether your shocked but quit shocked but quit shocked less than 10 croarettes per day shocked more than 20 croarettes per day 10. What best describes your ethnic group?	SPORT YES NO 89 88 87 86 85 85  OF NOT  SPICE USE ONLY  1 2 3 4 8 9 7 8 9 50 11 32 13 14 15 16 17 18 19 20 21  ### ### ### ### ### ### ### ### ### #
9. Which of the following statements BEST describes your sometimes whether any poulettered and the year you last latter you lettered and the year you last latter you lettered and the year you last latter your services your services your services your services your services your ether you last latter you last latt	SPORT YES NO SO
If YES, list the sport and mark whether of you lettered and the year you last latter.  9. Which of the following statements BEST describes your sometimes and the year you last latter.  9. Which of the following statements BEST describes your sometimes amoked and the year you last latter.  9. Which of the following statements BEST describes your sometimes amoked and the year you last latter.  9. Which of the following statements BEST describes your sometimes amoked and the year you last latter.  9. Which of the following statements BEST describes your sometimes amoked and the year you last latter.  9. Which of the following statements BEST describes your sometimes amoked and the year you last latter.  10. What best describes your ethnic group?  11. ASIAN	SPORT YES NO SO SEFORE SO THAT IS A SET OF S
9. Which of the following statements BEST describes your sometimes and the year you last letter you lettered and the year you last letter you smoked but authorized and the year you last letter your smoked but authorized your smoked less than 10 cigarettes per day smoked nore than 20 cigarettes per day smoked more than 20 cigarettes per day alsan your ethnic group?    ASIAN	SPORT YES NO SO SEFORE SO THAT IS A SET OF S

**SURVEY NETWORK™** 

Form Number 75020-5-72

## **FORT BLISS 1989 DATABASE**

# APPENDIX C DATA COLLECTION/EXTRACTION FORMS

# FT BLISS STUDY - 1989 ANTHROPOMETRIC DATA COLLECTION FORM

SUBJECT NUMBER	and the second			
NAME (LAST, FIRST,	MI)	ssn		
HEIGHT	cm	WEIGHT _	·	_ kg
NECK CIRC.	·	· _		cm
ABDOMINAL CIRC.	• —	•	· _	cm
FLEXIBILITY			<u> </u>	mm
MPJ FOOT LENGTH	cm			
FOOT LENGTH	cm			
FOOT WIDTH	cm			
DORSUM HEIGHT	mm			
NAVICULAR HETGHT	mm			

#### APPENDIX IV

DAILY TRAI	NING LOG			DATE_/_/
WEEK O	F TRAININ	1G:	DAY OF WEEK:	(DD MM YY) (CIRCLE) M T W T F S S
COMPAN	Y:	_PERS	ON COMPLETING LOC	3:
DAY ST	RAINING ARTED: (HC	OUR)		(NAME & RANK) TIME TRAINING DAY ENDED: (HOUR)
WEATHE	R CONDITI	ONS:_		
				,
MARCH : SPECIF: FOR THI	TO AND FI IED TRAIN E FOLLOWI	ROM TR VING A ING LI	AINING? ()YES CTIVITIES	( ) NO DURATION:MIN CHECK 'YES' FOR THOSE FORMED.
YES	NO	ACT	IVITY	DURATION DISTANCE
( )	( )	1.	RUNNING	MINMILES
( )	( )	2.	ROAD MARCH	MINMILES
( )	( )	3.	BAYONET	MIN
( )	( )	4.	PUGIL	MIN
( )	( )	5.	HAND TO HAND	MIN
( )	( )	6.	CONFIDENCE COURS	EEMIN
( )	( )	7.	OBSTACLE COURSE	MIN
( )	( )	8.	DRILL & CEREMON	ZMIN
( )	( )	9.	STANDING FORMAT	uon non
( )	( )	10.	CALISTHENICS	MIN
( )	( )	11.	STRETCHING	MIN
( )	( )	12.	GAMES (PLEASE L	IST)
				MIN
( )	( )	13.	OTHER ACTIVITIES	
				MIN

## FT BLISS STUDY - 1989

INJURIES: MEDICAL RECORDS REVIEW

		COMPANY	Y:		DATE RE	VIEWED:	MO DY YE	
	NAME (LAST	F, MI	DATE MO/DY/YR	DIAGNOSIS (INJURY)	IC SD	BODY	VST DSP	DAYS LOST
1		، خصص مند بعد مد مد مد مد مد	/_/_	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		1	!!	!
	X-RAY	1	INTERP/GRADE	;	BONE SCAN	, GR	ADE	
2			''		::	.:	:;	;
	X-RAY		INTERF/GRADE	:	BONE SCAN _	, G	RADE	
3			//		::	_	.	!
	X-RAY				BONE SCAN	, 6	SRADE	
4			''	•	;;;	_:	_;;	
	X-RAY		INTERP/GRADE		BONE SCAN	, (	GRADE	
5	i <u></u>				::		_!!	:
	X-RAY		INTERP/GRADI	E:	BONE SCAN		GRADE	
é	5		//		::	;	_::	!
0	X-RAY	/,	INTERP/GRAD	E:	BONE SCAN	<u> </u>	GRADE	_
-	NATICK		b (ONE-TIME)					

## FT BLISS STUDY - 1989

## ILLNESSES: MEDICAL RECORDS REVIEW

	COMPANY:			DATE 1	REVI	EWED: _	<u>-</u> / <u>-</u> -	-/ <sub>YR</sub> -	
NAME (LAST	F, MI)	DATE MO/DY/YR	DIAGNOSIS (ILLNESS)	TEMP (F)	IC	SYSTM	VST	DSP	DAYS LOST
1		'		!	!	!	;	:	!
2	- day (1955 days days days (1955 4**** 455) 4***	'		!	١		:		·
3				!	!	. •		!	.;
. 4						:		.:	:-
5		//		.:		.:	. 1	.:	.'
6		_'_'_		_	. <b>:</b> .		_ !	_ !	. !
7		_'_'_		. !	.;	. !	_!	.!	-!
8		_/_/_		. !	-	_;	_1	_	_
9		_'_'_		_ ;	-:	_ :	_!	_!	_;
10	**************************************	'				_		_	_! 

NATICK Form 739a (ONE-TIME)
1 Jul 89

	VOLUNTEER AGREEMENT AFRIDA For use of this loan, see AR 70-25, the proponent agents?	
	PREVACY ACT OF 1974	
Authority:	10 USC 3013, 44 USC 3101, and 10 USC 1071-1087	
Principle Purpose:	To document voluntary participation in the Clinical Investigation and Pers used for confidentialism and locating purposes.	search Program. SSN and home audress will be
Routine Cees	The SSN and home address will be used for dentification and location	paraces. Intermetion derived from the study
	will be used to document the study; implementation of medical programs reporting of medical conditions as required by law. Information may be fit	is adjudication of claims, and for the manustry unrighted to Federal. State and local agencies.
Orectosure	The harvature of your SSN and home address is mendatory and necess if huture information indicates that your health may be ediversely affectively your voluntary participation in this investigational study.	ary to provide identification and to contact you call. Feb.26 to provide the information may
	PART A(1) - VOLUNTEER AFFIDAVIT	
Volunteer Subjec	ts in Approved Department of the Army Research Studies	
	or the provisions of AR 40-38 and AR 70-25 are authorized at rise result of their percopation in such studies.	necessary medical care for injury or disease
1,		_, ssn
laving full capacity to	consent and having attained mybirthday, do	hereby volumeer/give consent as legal
apresentative for		to participate in
	of Stress Fractures Through Modification	
	aining Activities Based on Biodynamics (I	
	Colonel Thomas J. Scully, MC	•
00 m an an an an an an		
conducted at <u>Wi</u> The impactations of mand means by which	Iliam Beaumont Army Medical Center  ###################################	nd purpose of the research study; the methods
The implications of mand means by which of me by  -Colonel Scu have been given an and complete sassian	whose of measurement of measurements of duration and its to be conducted; and the inconveniences and hazards that may also be conducted; and the inconveniences and hazards that may concurrently to ask questions concerning this investigational study, coon. Should any further questions area concerning my rights in	nd purpose of the research study; the methods researchly be expected have been explained.  Any such questions were answered to my full
The implications of mand means by which of me by  -Colonel Scu have been given an and complete sassfar	Aftern of Intercery y voluntary participation/consent as legal representative; duration an it is to be conducted; and the inconveniences and hazards that may  11v	nd purpose of the research study; the methods researchly be expected have been explained.  Any such questions were answered to my full
The implications of mand means by which of me by  -Colonel Scu have been given an and complete sasstatement injury. I may describe the sasstatement of the sasstatemen	Aftern of Intercery y voluntary participation/consent as legal representative; duration an it is to be conducted; and the inconveniences and hazards that may  11v	Any such questions were answered to my full neighbor of the person I represent on study.
The implications of me indications by which of me by  -Colonel Scu have been given an indication given and complete sassfate the medication from the indication from the indications are necessarily and the indications are necessarily and indications are n	wy voluntary participation/consent as legal representative; duration and is to be conducted; and the inconveniences and hazards that may all voluntarity to ask questions concerning this investigational study, chor. Should any further questions arise concerning my ignitive anxionals:  Advocate  Tumont Army Medical Center, El Paso, TX	Any such questions were answered to my full he rights of the person I represent on study.  915+ 569-2236/2280  Consultation of the person I represent (militan person I represent I represent (militan person I represent
The impacazons of mand means by which of me by  -Colonel Scu have been given an and complete sassfall method injury, I may of Staff Judge  william Beautiful and the limits of request sassfall and the limits of request sammanous are necessarily and the limits of requests sammanous are necessarily and the limits of the linitial limits of the limits of the limits of the limits of the li	Advocate  Summer Army Medical Center, El Paso, TX  Them. Address and Phase dumber of Pase (Inches Area  Advocate (Inches Area) and Phase dumber of Pase (Inches Area)  They at any area dumny for course of this study revoke my consistent with a study area of the study revoke my consistent with a study area of this study revoke my consistent and a study area of this study revoke my consistent and a study area of this study revoke my consistent and this study revoke my cons	Any such questions were answered to my full neighbors of the person I represent on study.  915+ 569-2236/2280  Communication of the attending physician, such person I represent in a person I represent (militar person I represent in a person I represent its person I represent I represent its person I represent its p
The indications of mind means by which is me by —Colonel Scu have been given an indication given as satisfaction, I may of Staff Judge William Bear which are necessarily from the countries or request saminations are necessarily environe no penalty	When of menues, y voluntary participation vocation as legal representative; duration and it is to be conducted; and the inconveniences and hazards that may coportunity to ask questions concerning this investigational study, coon. Should any further questions arise concerning my rights/th syntact.  Advocate  Tumont Army Medical Center, El Paso, TX  There, Advoca and Phase Runder of Pasette (incluse Area of this study revoke my consessably without further panalty or loss of benefits; however, When the course of this study revoke my consessably without further panalty or loss of benefits; however, When the course of this study revoke my consessably without further panalty or loss of benefits; however, When the course of this study revoke my consessably without further panalty or loss of benefits; however, When the course of the study revoke my consessably for myritie parson I represents and well-being. My or loss of benefits to which I arrive parson I represent is otherwise.  PART A (2) - ASSENT VOLUNTEER AFFIDAVIT (Medical Center)	Any such questions were answered to my full the rights of the person I represent on study.  915+ 569-2236/2280  Consument and withdraw/have the person I represent person I represent in the person I represent the person I represen
The impacazions of mand means by which of me by  -Colonel Scu have been given an ind complete sassial seasod impay, I may of Staff Judge  William Bear  information from the countries of request samples are necessarily an expense of request samples are necessarily or request samples are necessari	At any other course of the supplementative duration and it is to be conducted; and the inconvenience and hazards that may contribute to ask questions concerning this investigational study.  Coopertunity to ask questions concerning this investigational study. Cooper Should any further questions arise concerning my rights/finance:  Advocate  Sumont Army Medical Center, El Paso, TX  Thems. Advises and Phase Munder of Magatar (include Area of the study revoke my consessably without further penanty or loss of benefits; however, Vitte and Comman volunteer) to undergo certain examination if, it is assured to my my my person I represent a negligibility or my the person I represent sheath and well-being. My or loss of benefits to which I amythe person I represent is otherwise.	Any such questions were answered to my ful ne rights of the person I represent on study.  915+ 569-2236/2280  Course  and withdrawthave the person I represent person I represent that the person I represent person I represent that the person I represent the opinion of the attending physician, such the person I represent's refusal to participal the enteted.  MOR CHILD)
The impacazions of mand means by which of me by  -Colonel Scu have been given an ind complete sassial seasod impay, I may of Staff Judge  William Bear  information from the countries of request samples are necessarily an expense of request samples are necessarily or request samples are necessari	When of measure you consider the supplementatives duration and it is to be conducted; and the enconveniences and hazards that may all you concluded; and the enconveniences and hazards that may all your conclusions any further questions arise concerning my rights/fit content. Should any further questions arise concerning my rights/fit content.  Advocate  Sumont Army Medical Center, El Paso, TX  Name Advocate  Sumont Army Medical Center, El Paso, TX  Name Advocate of Pase Advocate frequency (include Area of the Study revoke my consistency without suffer parasty or toos of benefits; however, life; and convene of the Study revoke my consistency without suffer parasty or toos of benefits; however, life; and convene of the Study revoke my consistency for my/fine paraon I represent's headh and well-being. My or toos of benefits to which I amythe person I represent is otherwise of benefits to which I amythe person I represent is otherwise.  PART A (2) - ASSENT VOLUNTEER AFFIDAVIT (Mit SSN	Any such questions were answered to my his neighbors of the person I represent on study.  915+ 569-2236/2280  Green  and withdrawthave the person I represent (militar person I represent thay be required (militar person I represent's refusal to participate exhibits.
The impacazions of mand means by which of me by  -Colonel Scu have been given an ind complete sassial seasod impay, I may of Staff Judge  William Bear  information from the countries of request samples are necessarily an expense of request samples are necessarily or request samples are necessari	Plant of menution of menution and the successors are legal representative; duration and it is to be conducted; and the successors and hazards that may apportunity to ask questions concerning this investigational study.  Coort. Should any turster questions arise concerning my rights/fit contact.  Advocate  Tumont Army Medical Center, El Paso, TX  There, Advocate course of this study revoke my consessury without turster parasty or loss of benefits; however, this is add (common volunteer) to undergo center examination. My or loss of benefits to which I arrive person I represent a health and well-being. My or loss of benefits to which I arrive person I represent is otherwise.	Any such questions were answered to my his neighbors of the person I represent on study.  915+ 569-2236/2280  Green  and withdrawthave the person I represent (militar person I represent thay be required (militar person I represent's refusal to participate exhibits.
The impacazions of mand means by which of me by  -Colonel Scu have been given an ind complete sassial seasod impay, I may of Staff Judge  William Bear  information from the countries of request samples are necessarily an expense of request samples are necessarily or request samples are necessari	When of measure you consider the supplementatives duration and it is to be conducted; and the enconveniences and hazards that may all you concluded; and the enconveniences and hazards that may all your conclusions any further questions arise concerning my rights/fit content. Should any further questions arise concerning my rights/fit content.  Advocate  Sumont Army Medical Center, El Paso, TX  Name Advocate  Sumont Army Medical Center, El Paso, TX  Name Advocate of Pase Advocate frequency (include Area of the Study revoke my consistency without suffer parasty or toos of benefits; however, life; and convene of the Study revoke my consistency without suffer parasty or toos of benefits; however, life; and convene of the Study revoke my consistency for my/fine paraon I represent's headh and well-being. My or toos of benefits to which I amythe person I represent is otherwise of benefits to which I amythe person I represent is otherwise.  PART A (2) - ASSENT VOLUNTEER AFFIDAVIT (Mit SSN	Any such questions were answered to my his neighbors of the person I represent on study.  915+ 569-2236/2280  Green  and withdrawthave the person I represent (militar person I represent thay be required (militar person I represent's refusal to participate exhibits.
The molications of mend means by which is me by which is me by "Colonel Scu have been given an and complete satisface william Beaumorstand that I menorated many, I may be successful that I menorated that I meno	When of hearness  y voluntary participation/consent as legal representative; duration and it is to be conducted, and the inconveniences and hazards that may  illy  coportunity to ask questions concerning this investigational study, conn. Should any hurther questions area concerning my rights/in connect:  Advocate  tumont Army Medical Center, El Paso, TX  There, Address and Phase Municipal Inschess Area of the study revoke my consessad (charles and inchess Area of the study revoke my consessad (charles and inchess and with paramy or loss of benefits however, little and research of mythe paramy in any paramy carries of the study revoke my consessad (charles of the study revoke my consessad (charles of the study revoke my consessad of benefits to united to consessate the section of the study revoke my consessary for mythe paramy in any or loss of benefits to which is anythe paramit's health and with being. My or loss of benefits to which i amythe paramit in represent is otherwise of the study adapted my	Any such questions were answered to my full the nights of the person I represent on study.  915+ 569-2236/2280  Course  Int and withdrawithave the person I represent person I represent thay be required (militant person I represent thay be required (militant person I represent thay be required (militant person I represent's refusal to participal with person I represent the person
The molications of mend means by which of means by which of me by  -Colonel Scuthard complete satisface elected inpury, I may of Staff Judge  william Beautiful menoration from the menoration from the menorations are necessarily and menorations are necess	Weeners Stump  PART A (2) - ASSENT WOLUNTEER AFFIDAVIT (Meeners Stum)  Properticipate in	Any such questions were answered to my full the nights of the person I represent on study.  915+ 569-2236/2280  Course  Int and withdrawithave the person I represent person I represent thay be required (militant person I represent thay be required (militant person I represent thay be required (militant person I represent's refusal to participal the entitle).  WOR CHILD)

Continue on Reverse)

_	PART A(2) - ASSENT VOLL	INTEER AFFIDAVIT (MI	IOR CHILD) (Confd.)
T	The impactations of my voluntary participation; the natural might 4 is to be conducted; and the inconveniences and f	s, duration and purpose of tazards that may reasonal	if the research study, the methods and means by by be expected have been explained to me by
1	have been given an opportunity to ask questions concer nd complete settefaction. Should any further questions a	Tring the investigational at time concerning my rights	udy. Any such questions were answered to my full I may contact
-		Time Number of Hanneled State	
ρ: **	understand that I may at any time during the course of snally or loss of benefits; however, I may be requested uch examinations are necessary for my health and well- thich I am otherwise entitled.	to undergo certain exam	matter it in the opinion of the attending physician.
_	PART 8 - TO BE	COMPLETED BY INVES	TIGATOR
_	ISTRUCTIONS FOR ELEMENTS OF INFORMED CONSENT	Provide a detailed explana	iron in accordance with Appendix E. AR 40-38 or
You ha	ve volunteered to participate in a study and musculoskeletal (pertaining to the		
past pa previou	rticipation in sports, recreation, and ph s injuries that have significantly affecte	out a questionnair hysical training act ed your ability to p	e. The questionnaire will ask about yo ivities. Also, you will be asked about perform your normal daily activities.
weight,	and-your ability to perform simple tas nnaire and the measurements will take	ks like touching ye	e made of your body, such as height and our toes and lifting an object. The hours to complete.
Unit Tr tests for you ma	raining or Basic Combat Training we war comparison with your listing of fitnes	vill record your pe is on the question	ort of the study. During your One Stati reformance on all Army Physical Fitness naire. Also, we will record all visits the aining period in the Army. you may all
Numbe	r of Trainees to be Studies: 1200	-	
10	do not (check one & initial) or treatment record.	onsent to the inclusion	of this form in my outpatient medical
SX	ENATURE OF VOLUMITEER	DATE	SIGNATURE OF LEGAL GUARCIAN (If volunteer is a minor)
	RMANIENT ADDRESS OF VOLUNTEER	TYPED NAME OF WITH	
		The second second	
		SGNATURE OF WITHE	CATE

Benefits: The results of this study are unlikely to be of direct benefit to you. However, they should be of benefit to the Army in determining what aspects of physical training contribute most to the likelihood of musculoskeletal injuries, and also those which contribute most to the development of fitness.

Risks: There are no risks associated with participating in this study.

**DURATION OF STUDY: 24 months** 

EXPECTED DURATION OF SUBJECTS PARTICIPATION: 1-2 hours

ASSURANCE OF CONFIDENTIALITY: During the course of your treatment as a patient at William Beaumont Army Medical Center, you have been provided a copy of the Privacy Act Statement (DD Form 2005) which has made you aware of the safeguards available because of the privacy Act of 1974. You have been given the opportunity to review the DD Form 2005, ask questions, and retain a personal copy. You have been made aware that the information gained because of your participation in this study may be publicized in the medical literature, discussed as an educational model, and used generally in the furtherance of medical science. Information gained from this study may be used as part of a scientific publication in medical or professional journals, but you will in no way be personally identified. Authorized representatives of the Department of Defense may review the records of this research.

In the event of physical injury resulting from the investigational procedures, the extent of medical care provided is limited and will be within the scope authorized for DOD health care beneficiaries. Necessary medical care does not include domiciliary (home or nursing home) care.

You will be provided a copy of this consent form.

YOU MAY CONTACT COL SCULLY FOR ANSWERS TO PERTINENT QUESTIONS ABOUT THE RESEARCH OR TO REPORT RESEARCH RELATED INJURIES. (569-2288)

SIGNIFICANT NEW FINDINGS: Any significant new findings developed during the course of this study will be available to you upon request.

FOR INFORMATION REGARDING THE RIGHTS OF STUDY SUBJECTS, CONTACT THE STAFF JUDGE ADVOCATE, WILLIAM BEAUMONT ARMY MEDICAL CENTER (569-2236/2280).

PARTICIPATION IN THIS STUDY IS VOLUNTARY. REFUSAL TO PARTICIPATE WILL INVOLVE NO PENALTY OR LOSS OF BENEFITS TO WHICH YOU ARE OTHERWISE ENTITLED. YOU MAY DISCONTINUE PARTICIPATION AT ANY TIME WITHOUT PENALTY OR LOSS OF YOUR ENTITLED BENEFITS.

		GREEMENT AFFIDAVIT		
		CY ACT OF 1874		
Authority.	10 USC 2013, 44 USC 2101, and 10 USC	1071-1067.		
Principle Purpose: Te document voluntary participation in the Clinical Investigation and Research Program. SSN and from audities will be used for Identification and locating purposes.				
Routine Uses:	The \$SN and home address will be used it will be used to document the study, Implem reporting all medical conditions as required it	or Identification and locating purposes. Mormation de entation of medical programs, advokcation of claims, ar by lear, information may be furnished to Federal, State (	ived from the study of for the mendatory and local agencies.	
	The furnishing of your 85% and home adds 8 future information indicates that your hi preclude your voluntary participation in this	see is mandalory and necessary to provide identification selfh may be adversely affected. Failure to provide investigational study.	and to contact you he information may	
	PART A(1) · W	OLUNTEER AFFIOAVIT		
Volunteer Subject	in Approved Department of the An	my Research Studies		
Volunteers under which is the proximate	the provisions of AR 40-36 and AR 1 result of their participation in such studie	70-25 are authorized all necessary medical care se.	for injury or discussion	
L	·	ssn	•	
having full capacity to		birthday, do hareby volunteer/give or		
representative for		to perficipate in		
	A	ion in the Diagnosis of Lower E	ctremity	
	ng Army Initial Entry Ti		-	
under the direction of _	Major Bruce H. Jon	es (Responsible Investigator)		
conducted atWill		al Center, El Paso, TX 79920-5	001	
I have been given an o	ion. Should any further questions aris	156-4887  This investigational study. Any such questions were concerning my rights/the rights of the person I	answered to my Mill represent on study.	
Staff Judge A		ter, El Paso, TX 79920-5001 9	15. 560 2226	
I understand that I are withdrawn from the at- volunteer) or requests examinations are neces	Plane, Address and Phone Ru y all any time during the course of the dry without further penalty or loss of d (CAVITAN VOLUNION) to underso on	wher of Hospital Include Area Codes  study revoks my consent and withdrawhere it benefits; however, Vilhe person I represent may risin examination it, in the opnion of the atten- eath and well-being. "Nylhe person I represent a	e porson i represent be required (military Sng physician, such	
	PART A (2) - ASSENT YOLL	INTEER AFFIDAVIT (MINOR CHILD)	<del></del>	
ξ		\$\$N	havvro full	
assent		britiday, do hereby volunteer for		
		to perticipate in		
·	Ren	erth Study		
under the direction of		•		
conducted at	flame a	I in all ultions	·	
	•	we on Revecter		

DA FORM 5303-R, MAY 88

PREVIOUS EDITIONS ARE OBSOLETE

. •	•	
PART A(2) - ASSENT VOLU	HTEER AFFIDAYIT (MU	IOR CHILDI (CONTA)
The Implications of my voluntary participation, the nature which it is to be conducted, and the incomprishess and his	, duration and purpose of stands that may reasonab	If the research study, the methods and means by My be expected have been explained to me by
I have been given an opportunity to ask questions concern and complete askelection. Should any further questions as	ang file investigational at the concerning my rights	ody. Any such questions were answored to my full imay contact
	tone Mumber of Mouples' Anch	
I understand that I may at any time during the course of penalty or loss of benefits, however, I may be requested such examinations are necessary for my health and well-b which I am otherwise entitled.	I this study revoke my a: To underso certain exam	sont and withdraw from the study without further
PART B - TO BE (	COMPLETED BY INVES	TIGATOR
INSTRUCTIONS FOR BLEMENTS OF INFORMED CONSENT: (	Provide a delayed explana	Non in accordance with Appendix E, AR 40-38 or
You have volunteered to participate infra-red photography (also known a injuries. Infra-red photography is Infra-red photography makes images of making pictures from light waves photography. When the body is injured and sometimes less. By taking pictinjured, we hope to demonstrate that the nature of your injury, and when Before basic training begins we will physical fitness before you joined responses on a questionnaire which	s thermography) similar in son from heat waves reflected from the frequent of the heat infra-red photography are ready. I ask you some the Army. You will be handed	to diagnose leg and foot ne ways to normal photography. semitted from your body instead ne your body, as with normal atly emits more heat than usual, at from your body when you are ntography is helpful in determining to return to training.  questions about your health and will be asked to record your out to you. Also, before you
begin basic training we will measure (the later with tape measures of yo measure your feet. Additionally, w having you sit on the floor and pus as you can. At the time of these o infra-red photographs of your feet	e your height, our neck and was se will determin sh a slide on a other measuremen	weight, and percent of body fat ist), and we will inspect and he how flexible you are by ruler towards your toes as far his, we will also take several
During the 8 weeks of your basic tr reviewing your medical records. Al sick call we may take another serie Furthermore, some of you will be as of you any time you report to the c	so, anytime yours of infra-red ked to have the linic.	report to the health clinic on photographs (as above) ese infra-red photographs taken
do not () (check one & initial) cor treatment record.	nsent to the inclusion	of this form in my outpatient medical
SONATURE OF VOLUNTEER	DATE	SIGNATURE OF LEGAL GUARDIAN (FrioUnited to a Julior)

TYPED HAVE OF WITHESS

SOMATURE OF WITHESS

PETHANENT ADDRESS OF VOLUNTEER

#### PART 8 - TO BE COMPLETED BY INVESTIGATOR (COANS)

During basic training we will also collect the results of your physical training test scores, and information about your company's physical training from your company commander.

REASONABLY FORESEEABLE RISKS OR DISCOMFORTS: Infra-red photography is a safe procedure and should pose no more risk to you than having a photography taken under similar circumstances. The other measurements we will make of you should not put you at any significant risk of harm. The greatest risk will probably occur as a result of the toe touching test where it is possible you could strain your back or a muscle in your legs.

BENEFITS TO THE SUBJECT OR OTHERS: This study will provide no direct benefits to you, however, the information gathered on you and others may be of great benefit to other trainees, like yourself, in the future, and also to the Army. If infra-red photography is proven useful in this study, it could provide an inexpensive, safe way to detect injuries early and help make better decisions about when soldiers are ready to resume normal activities after injury.

CONFIDENTIALITY OF INFORMATION ON MILITARY TEST SUBJECTS: All data and medical information obtained about you as an individual will be considered privileged and held in confidence. Complete confidentiality cannot be promised to subjects who are military members, because information bearing on your health may be required to be reported to appropriate medical or Command authorities, and applicable regulations note the possibility that the Food and Drug Administration and USAMRDC officials may inspect the records.

SIGNIFICANT NEW FINDINGS: Any significant new findings developed during the course of this study will be available to you upon request.

APPROXIMATE NUMBER OF SUBJECTS INVOLVED IN THE STUDY: 1000

DOMICILIARY STATEMENT: The extent of medical care provided, should it become necessary, is limited and will be within the scope authorized for DOD health care beneficiaries. Necessary medical care does not include domiciliary care.

DURATION OF STUDY: 20 weeks

\*\*\*\*\*\* .. D. .. .. .. ...

EXPECTED DURATION OF SUBJECT'S PARTICIPATION: 8 weeks

For information regarding the rights of study subjects, contact the Staff Judge Advocate, William Beaumont Army Medical Center (569-2236/2280).

Participation in this study is voluntary. Refusal to participate will involve no penalty or loss of benefits to which you are otherwise entitled. You may discontinue participation at any time without penalty or loss of your entitled benefits.

For further information, please contact the principal physician, Dr. DiBenedetto, 569-2233. If there is any portion of this explanation that you do not understand, ask the physician before signing.

NATURE OF VOLUNTEER	DATE SIGNED	SIGNATURE OF	LEGAL GUARDIAN III voluntee
	1	le e minor)	
MANENT ADDRESS OF VOLUNTEER	TYPED OR PRINTED NAM	E AND SIGNATURE OF	DATE SIGNED
_		·	
•			1

## **FORT BLISS 1989 DATABASE**

# APPENDIX D DATABASE CODEBOOKS

Fort Bliss 89 Codes 4D Filename - FB MAIN FILE

Field Name	Description	Missing Values	Format	Responses
SUB NUM	Subject Number, Unique		Alpha10 (89B####)	
COMPANY	Basic Training Unit		Alpha4	Value Frequency
<u></u>				C1B9 3
				D1C8 6
				D3B 5
				7
				L3C 228
				Î
				144
Last Name			Alpha15	
First Name			Alpha15	
SSN	Social Security Number		Alpha11	ı
Sex			Alpha6	Value Frequency
				MALE 1441
				Total 1441
Age			Integer	# Non-missing 1441
				m
				Minimum 17.000 Maximum 40.000
DT STARTED	Training Start Date	00/00/00 (23)	Date	# Non-missing 1418 Minimum 7/21/89
O Sub Num	Sub Number, use		Alpha10	יישאדווושווו // ביי / איי
	est fi			

Print Date:8/4/97 11:19 AM

Last Updated: 8/4/97 11:19 AM

Page: 1

Fort Bliss 89 Codes 4D Filename - FB MAIN FILE

Field Name	Description	Missing Values	Format	Responses	
IL Sub Num	same as Sub Number, used for linking to FB ILLNESS file		Alpha10		
AN Sub Num	1		Alpha10		
mnN du2 NI			Alpha10		
AP Sub Num	same as Sub Number, used for linking to FB APRT file		Alpha10		
Subject Info	ion in date			Value Frequency	тсу
	1=Subject			13	57
	5=Anthro only, late Unit				26
	/=Anthro only 8=Questionnaire only				10
	y=Non-subject				11
MSI OU	Type code of most significant overuse injury.	0 (1223)	Integer	Freque	ıcy
					43
	H N				36
	H	•			4
	$4 = OTH_TND$ 5 = BURSITIS				ω σ
	6 = FASCITIS				54
	/ = OU_INJ 9 = PAIN			9.00 63	 333
				;	
MSI OU numinj	Number of separate overuse injuries.	0 (1223)	Integer	# Non-missing	218
				Median	1.000
				Maximum	3.000

Print Date:8/4/97 11:19 AM

Last Updated: 8/4/97 11:19 AM

Page: 2

Fort Bliss 89 Codes 4D Filename - FB MAIN FILE

Wield Name	Description	Missing Values	Format	Responses	
1					
MSI OU numvisit		0 (1223)	Integer	# Non-missing 218	36
	resurcing from overuse injuries.			Median 1.000	00
					00
				Maximum 4.000	8
MSI OU dl	Total number of days lost due to	0 (1283)	Integer	-missinc	(
	overuse injuries.				80.0
				Maximum 56.000	000
MSI TR		0 (1260)	Integer	Value Frequency	
	traumatic injury.			8.00	
	NT ALL				
	0				
	II			12.00	
	II				
	II		· .		
,	15 = ABKSN_LC 16 = CONTSN				
		:		Total 1441	
MST TR numini	Number of separate traumatic	0 (1260)	Integer	# Non-missing 181	
	. SS.				105
					000
			eter suite a Tou	Minimum 1.000	000
	* * * * * * * * * * * * * * * * * * *	0 (1360)	Tatogor	igaina	3 _
MSI TR numvisit	Number of Clinic Visits		ייונע מ		3.15
······································		-			000
				Minimum 1.000	000
					3
MSI TR dl	Total number of days lost due to	0 (1304)	Integer	n-missing	7
	traumatic injuries.			Medii 0.4	0 0
				ε	000
				7	000

Print Date:8/4/97 11:19 AM

Fort Bliss 89 - Anthropometric Codes 4D Filename - FB ANTHROPOMETR

Values	Field Name	Description M	Wissing	Missing Calculation	Format	Responses
			Values			

AN GITE NITM	Subject Number		Alpha10	
TOTAL TOTAL	Unique		(880###)	
AN UNIT	Basic Training		Alpha 4	Value Frequency
				D3 213 D3B 10
				Total 1424
AN LNAME	Last Name		Alpha 15	
AN FNAME	First Name		Alpha 12	
AN MI	Middle Initial	(0)	Alpha 1	# Non-missing 1424
AN ACC NUM	Entered as 1 for everyone		Integer	Value Frequency 1 1424
				Total 1424
AN SSN	Social Security Number		Alpha 11 (###-##-###)	
AN SEX				Value Frequency MALE 1424
				 Total 1424
SEX CD	1=Male		Integer	Value Frequency 1 1424
				TOTAL 1424

Fort Bliss 89 - Anthropometric Codes 4D Filename - FB ANTHROPOMETR

Field Name	Description	Missing	Calculation	Format	Responses
AN AGE				Integer	n-missing
					Median 19.030
					ε
					Maximum 40.000
AN HT	Height in CM	0 (5)		Real	# Non-missing 1419
					Mean 175.827
					Median 175.800
					Minimum 153.600
AN WT	Weight in Kg	0 (5)		Real	# Non-missing 1429
				<b>.</b>	# Mean
					ដ្ឋ
		- 1			
AN BMI	Body Mass Index	0 (5)	AN WT/((AN HT/100)^2)	Real	n-missinc
	(Kg/m/2)				Mean 24.480
				-	
744	7				axımum
AN NEKL M	LSt neck measurement (cm)	(S)		Real	# Non-missing 1417
AN NEK2 M	1	0 (7)		Real	# Non-missing 1417
	measurement (cm)	1			
AN NEK3 M	3rd neck   measurement (cm)	(8)		Real	# Non-missing 1416
AN NEK AVG M	Average of three	0 (7)	(AN NEK1 M + AN NEK2 M	Real	# Non-missing 1417
	neck measurements		+ AN NEK3 M)/3		ean
	(cm)				
					Minimum 24.970
AN ABD1 M	1st abdomen	0 (7)		נפסמ	# Non-missing 1430
	measurement (cm)			***************************************	T GITESTII IION
AN ABD2 M		(2) 0		Real	# Non-missing 1417
	measurement (cm)	- 1			
AN ABD3 M	3rd abdomen measurement (cm)	(2)		Real	# Non-missing 1417

Print Date:6/30/97 9:31 AM

Last Updated: 6/10/97 3:09 PM

Page: 2

Fort Bliss 89 - Anthropometric Codes 4D Filename - FB ANTHROPOMETR

AN ABD AVG M Aver abdc	•	2)5				
abdc meas	Average of three	0 (7)	(AN ABD1+AN ABD2+ AN	Real	rissim-r	ig 1417
meas			ABD3)/3			82.239
	measurements (cm)					80.430
					Minimum	62.370
AN ARMY BFM Army	Army Body Fat	0 (7)	if (AN ABD2 M>0,	Real	issi	lg 1417
	Calculation	•	(46.892-(68.687*(Log		Mean	18.406
			(AN HT))*0.4342944)+		Median	17.600
			(76.462*(Log(AN ABD		Minimum	3.500
			AVG M-AN NEK AVG M) *		Maximum	34.100
AN NAVY BFM NAVY	v Body Fat	0 (7)	if (AN ABD AVG M>0.	Real	# Non-missing	1417
	Calculation		((4.95/AN BDM)-4.5)		Mean	14
			*100,0)		Median	13.527
					Minimum	-1.102
					Maximum	32.033
AN BDM BOdy	Body Density		if (AN ABD3 M>0,	Real	# Non-missing	ig 1424
Calc	Calculation		(1:0324+(0.15456*(Log(		Mean	1.065
			AN HT))*0.434292)-		Median	1.068
			(0.19077*(Log(AN ABD))		Minimum	1.000
			AVG M-AN NEK AVG M))*0,434292)),1)		Maximum	1.103
AN FLEX1		0 (8)			# Non-missing	ig 1416
AN FLEX2		(8)			# Non-missing	ıg 1416
AN FLEX3		0 (8)			# Non-missing	ig 1416
AN AVG FLEX AVE	Average	(8)	(AN FLEX1+AN FLEX2+ AN	Real	# Non-missing	ig 1426
Fle	Flexibility		FLEX3)/3		Mean	30.073
(cm)	<u> </u>				Median	30.300
					Minimum	7.000
					Maximum	A. I
AN AVG FLEX HT		(8)	AN AVG FLEX/AN HT		Won-missing	
					Median	0.1/1
					Minimum	0.039
	:				Maximum	0.285

Print Date:6/30/97 9:31 AM

Fort Bliss 89 - Anthropometric Codes 4D Filename - FB ANTHROPOMETR

Field Name	Description	Missing Values	Calculation	Format	Responses	İ
AN MPJ FOOT LEN	measured in cm	(2) 0			# Non-missing	1417
					Mean 1	19.563
						19.600
					Minimum 1	10.700
					Maximum 2	6.000
AN FOOT LENGTH	measured in cm	0 (2)			# Non-missing	1417
					•	26.842
						6.800
						10.800
		- 1			ıximum	1.400
AN FOOT WIDTH	measured in cm	0 (2)			# Non-missing	1417
				•	Mean 1	0.358
						10.300
					Minimum	5.500
						0.500
AN DORSUM HEIGH	measured in mm	(2)			issing	1417
					Mean 6	63.384
					ur L	4.000
						30.000
-					Maximum 9	8.000
AN D HT MPJ L		(2)	(AN DORSUM HEIGH/10)/		# Non-missing	1417
			AN MPJ FOOT LEN			0.326
				300.		0.330
-						0.150
					Maximum	0.510
AN D HT FT L		0 (7)	(AN DORSUM HEIGH/10)/		nissim-r	1417
			AN FOOT LENGTH			0.237
						0.240
						0.120
	- [	- 1			Maximum	0.510
AN NAVICULAR HE	measured in mm	(8)			n-missin-	y 1416
						0.660
						41.000
						20.000
					Maximum 7	7.000

Print Date:6/30/97 9:31 AM

Last Updated: 6/10/97 3:09 PM

Fort Bliss 89 - Anthropometric Codes 4D Filename - FB ANTHROPOMETR

Field Name	Description	Missing Values	Calculation	Format	Responses	
AN N HT MPJ L		(8)	(AN NAVICULAR HE/10)/		# Non-missing 1416	1416
			AN MPJ FOOT LEN	100	Mean	0.210
					Median	0.200
					Minimum	0.100
					Maximum	0.400
AN N HT FL L		(8)	(AN NAVICULAR HE/10)/		# Non-missing	1416
			AN FOOT LENGTH		Mean	0.152
					Median	0.150
					Minimum	0.070
					Maximum	0.310
AN FOOT TYPE		0 (10)			Value Frequency	ıcy
***					1 3	328
- t-					2 7,	8
<del>,</del>						299
				***************************************		37
					S.	2
						10
						5
					l rocar	54

Fort Bliss 1989 Codes 4D Filename - FB APRT

Field Name	Description	Missing Values	Calculation	Format	Responses
AP SUB NUM	Subject Number, Unique			Alpha10	
AP BRANCH		(1339)		Alpha7	Value Frequency
					1339 ACT DTY 12
					 Total 1351
AP A NUM	Entered as 1 for all subjects			Integer	redner
					1 1351
					Total 1351
AP LNAME				Alpha15	
AP FIRST NAME				Alpha15	
AP MI	Middle Initial	(889)		Alpha2	# Non-missing 664
AP SSN	Social Security Number			Alpha11 (###-##-##)	
AP SEX				Alpha4	Value Frequency
					MALE 1351
					Total 1351
AP RACE	-	(1321)		Alpha6	Value Frequency

Print Date:6/30/97 9:29 AM

Total 1351
# Non-missing 1055
Mean 19.007
Median 18.000
Minimum 17.000
Maximum 40.000

Integer

AP AGE

1351

Fort Bliss 1989 Codes 4D Filename - FB APRT

Field Name	Description	Missing Values	Calculation	Format	Responses	
AP UNIT	Basic Training Unit			Alpha4	Value Frequency	
						54
				**********		903
						355
						101
					E3	226 209
	7.1.14	777			taı	1351
AP PLT	Platoon	0 (114)		Integer	Value Frequency	
					4 329	
					Total 1351	
AP DATE START	Date Started  Training			Date	Frec	
	,					94
	ı					12
	ı					27
	ı					101
	1 1					60
	E3 - (9/1/89)	<del></del>			9/29/89 2/29/89	253 255
		·			ļ	
					Total 13	1351

Print Date:6/30/97 9:29 AM

Last Updated: 4/30/97 1:23 PM

Fort Bliss 1989 Codes 4D Filename - FB APRT

Field Name	Description	Missing Values	Calculation	Format	Responses	
AP PT DT1	Date of 1st PT	00/00/00		Date	Value Frequency	ency
	רפאר	(CT)			10/2/89	254
					7/24/89	193
					7/31/89	12
					8/21/89	226
					8/1/89	201
					9/18/89	243
					9/4/89	207
-					Total	1351
AP DC1	Day of Cycle for				Value Frequency	ency
	1st PT Test				,	!
					00.	47
						54
						250
٠					HO + 12 12 12 12 12 12 12 12 12 12 12 12 12	1351
		ı			דטרמד	1
AP PU1	# of push ups for	0 (120)		Integer	ı-missinç	3 1231
	lst PT test					36.915
						35.000
						1.000
					Maximum	93.000
AP PU SC1	score for push ups	0 (1345)		Integer	n-missing	3.7
	for 1st PT test					55.571
						61.000
						21.000
					Maximum	85.000
AP SU1	# of sit ups for	0 (117)		Integer	# Non-missing	g 1234
	1st PT test				Mean	50.136
					Median	50.000
					Minimum	3.000
					Maximum	96.000

Fort Bliss 1989 Codes 4D Filename - FB APRT

AP SU SC1 score for sit ups (1345)  AP RUN MINI minutes portion of 0 (121)  Tun time for 1st PT Test P							
SU SCI score for sit ups (1345)  For 1st PT Test  RUN MIN1 minutes portion of (121)  For test  RUN TM1 run time for 1st  FOR TEST  RUN TM1 run time for 1st  FOR TEST  RUN SCI run time for 1st  FOR TEST  RUN TM1 run time for 1st  FOR TEST  RUN SCI run score for 1st  FOR TEST  RUN SCI run score for 1st  FOR TEST  RUN SCI run score for 1st  FOR TEST  FOR TEST  RUN SCI RUN MIN1+(AP FOR	Name	escription	Missing Values	Calculation	Format	Responses	
SU SCI score for sit ups (1345)  FOR IST PT Test  RUN MIN1 minutes portion of (121)  FOR Lest  RUN SCI seconds portion of (168)  FOR Test  RUN TM1 run time for 1st  FOR Test  RUN TM1 run time for 1st  FOR Test  RUN TM1 run time for 1st  FOR Test  RUN SCI run score for 1st  FOR Test  RUN SCI run score for 1st  FOR Test  RUN SCI run score for 1st  FOR Test  RUN SCI RUN MIN1+(AP F  FOR Test  RUN SCI RUN MIN1+(AP F  FOR TEST  FOR TEST  FOR TEST  RUN SCI RUN SCI + AP SU  Ist PT test  FOR TEST  RUN SCI RUN SCI + AP SU  Ist PT test  FOR TEST  RUN SCI RUN MIN1+(AP F  FOR TEST  RUN SCI RUN SCI RUN SCI RUN SCI  FOR TEST  RUN SCI RUN SCI RUN SCI  FOR TEST  FOR TEST  RUN SCI RUN MIN1+(AP F  FOR TEST  RUN SCI RUN SCI RUN SCI  FOR TEST  RUN SCI RUN SCI RUN SCI RUN SCI  FOR TEST							
RUN MIN1 minutes portion of 0 (121) run time for 1st PT test  RUN SEC1 seconds portion of 0 (168) run time for 1st PT Test  RUN TM1 run time for 1st 0 (121) AP RUN MIN1+(AP F PT test  RUN SC1 run score for 1st 0 (1343) PT test  OVRL SC1 Overall score for 0 (1340) AP PUSC1 + AP SU  1st PT test  OVRL SC1 Overall score for 0 (1340) AP RUN SC1  HT IN1 Height in Inches  0 (384)	SC1	core for sit ups			Integer	# Non-missind	1 7
RUN MIN1  minutes portion of 0 (121)  run time for 1st  PT test  RUN TM1  run time for 1st  run score for 1st  r	<del>ĭ</del>	or 1st PT Test				Mean	56.857
RUN MIN1 minutes portion of 0 (121)  run time for 1st PT test  RUN SEC1 seconds portion of 0 (168)  run time for 1st PT Test  RUN TM1 run time for 1st 0 (121) AP RUN MIN1+(AP F PT test  RUN SC1 run score for 1st 0 (1343)  PT test  OVRL SC1 Overall score for 0 (1340) AP FUSC1 + AP SU  Ist PT test  OVRL SC1 Overall score for 0 (1340) AP RUN SC1  HT IN1 Height in Inches  O (384)						Median	55.000
RUN MIN1  run time for 1st PT test  RUN SEC1  run time for 1st PT Test  RUN TM1  run time for 1st PT test  RUN SC1  run score for 1st PT test  OVRL SC1  run score for 1st PT test  OVRL SC1  OVERALL SC1  IST PT TEST  HEIGHT IN Inches  O (384)						Minimum	41.000
RUN MINI         minutes portion of PT test         0 (121)           RUN SECI         seconds portion of PT Test         0 (168)           RUN TMI         run time for 1st PT test         0 (121)           RUN TMI         run time for 1st PT test         0 (1343)           RUN SCI         run score for 1st PT test         0 (1343)           AP RUN SCI         PT test           OVETAIL SCORE for 1st PT test         0 (1343)           AP RUN SCI         AP RUN SCI           HT INI         Height in Inches           HT INI         Height in Inches           Ist PT Test         0 (384)	70.110		ı			Maximum	95.000
RUN SEC1         seconds portion of run time for 1st PT Test         0 (121)         AP RUN MINI+(AP FT Test           RUN TM1         run time for 1st PT test         0 (121)         AP RUN MINI+(AP FT TEST           RUN SC1         run score for 1st PT Test         0 (1343)           OVRL SC1         Overall score for 1st ST PT test         0 (1340)         AP PUSC1 + AP SU           HT IN1         Height in Inches         0 (384)         AP RUN SC1	KON MINI				Integer	a-missinç	1230
RUN SEC1         seconds portion of run time for 1st PT Test         0 (121)         AP RUN MIN1+(AP F F F Lest           RUN TM1         run time for 1st PT test         0 (1343)         SEC1/60)           RUN SC1         run score for 1st PT test         0 (1343)         AP RUN MIN1+(AP F SU F T EST           OVRL SC1         Overall score for 0 (1340)         AP RUN SC1         AP RUN SC1           HT IN1         Height in Inches         0 (384)           HT IN1         from 1st PT Test         0 (384)	7 -	un time ior ist					15.559
RUN SEC1 seconds portion of 0 (168)  run time for 1st  PT Test  RUN TM1 run time for 1st 0 (121) AP RUN MINI+(AP F  PT test  RUN SC1 run score for 1st 0 (1343)  PT test  OVRL SC1 Overall score for 0 (1340) AP PUSC1 + AP SU  1st PT test  HT IN1 Height in Inches 0 (384)	<u> </u>	ו רפצר					15.000
RUN SEC1 seconds portion of 0 (168)  run time for 1st PT Test  RUN TM1 run time for 1st 0 (121) AP RUN MIN1+(AP F PT test  RUN SC1 run score for 1st 0 (1343)  PT test  OVRL SC1 Overall score for 0 (1340) AP FUSC1 + AP SU  1st PT test  HT IN1 Height in Inches 0 (384)							10.000
Tun time for 1st   0 (121)   AP RUN MIN1+(AP F)	1720	2	-			Maximum	34.000
Fig. 1.10   Fig.	DECT	econds portion or			Integer	o-missinc	1183
RUN TM1       run time for 1st       0 (121)       AP RUN MIN1+(AP F)         RUN SC1       run score for 1st       0 (1343)         PT test       0 (1340)       AP PUSC1 + AP SU         OVRL SC1       Overall score for 0 (1340)       AP RUN SC1         HT IN1       Height in Inches       0 (384)         HT IN1       from 1st PT Test	<u> </u>	In time for 1st					28.958
RUN TM1         run time for 1st         0 (121)         AP RUN MIN1+(AP F SEC1/60)           RUN SC1         run score for 1st         0 (1343)           PT test         0 (1340)         AP PUSC1 + AP SU AP RUN SC1           HT IN1         Height in Inches from 1st PT Test         0 (384)		ו ופאר					30.000
RUN TM1         run time for 1st         0 (121)         AP RUN MIN1+(AP FORT 1 test           RUN SC1         run score for 1st         0 (1343)           PT test         0 (1340)         AP FUSC1 + AP SU           OVRL SC1         Overall score for 0 (1340)         AP RUN SC1           HT IN1         Height in Inches from 1st PT Test         0 (384)	-						1.000
KUN TM1         run time for 1st         0 (121)         AP RUN MIN1+(AP F F EST           RUN SC1         run score for 1st         0 (1343)           PT test         0 (1344)         AP FUSC1 + AP SU 1st PT test           OVRL SC1         Overall score for 0 (1340)         AP RUN SC1           HT IN1         Height in Inches         0 (384)           HT IN1         from 1st PT Test         0 (384)						Maximum	60.000
RUN SC1       run score for 1st 0 (1343)       \$FC1/60)         OVRL SC1       Overall score for 0 (1340)       AP FUSC1 + AP SU 1st PT test         HT IN1       Height in Inches from 1st PT Test       0 (384)		tor	(121)	IN1+(AP	Real	# Non-missing	1230
RUN SC1 run score for 1st 0 (1343)  PT test  OVRL SC1 Overall score for 0 (1340) AP FUSC1 + AP SU  1st PT test  HT IN1 Height in Inches 0 (384)  from 1st PT Test	<u> </u>	rest		SEC1/60)		Mean	16.024
RUN SC1 run score for 1st 0 (1343)  PT test  OVRL SC1 Overall score for 0 (1340) AP FUSC1 + AP SU  1st PT test  HT IN1 Height in Inches 0 (384)  from 1st PT Test							15.680
NUM SC1 run score for 1st 0 (1343)  PT test  OVRL SC1 Overall score for 0 (1340) AP PUSC1 + AP SU  1st PT test  HT IN1 Height in Inches 0 (384)  from 1st PT Test						Minimum	10.650
MUN SCI run score for 1st 0 (1343)  PT test  OVRL SC1 Overall score for 0 (1340) AP FUSC1 + AP SU  1st PT test  HT IN1 Height in Inches 0 (384)  from 1st PT Test		1	- 1			Maximum	34.880
OVRL SC1 Overall score for 0 (1340) AP PUSC1 + AP SU 1st PT test  HT IN1 Height in Inches 0 (384) from 1st PT Test		ø			Integer	# Non-missing	8
OVRL SC1 Overall score for 0 (1340) AP PUSC1 + AP SU 1st PT test  HT IN1 Height in Inches 0 (384) from 1st PT Test	<u>-</u>	r test		•		Mean	61.875
OVRL SC1 Overall score for 0 (1340) AP PUSC1 + AP SU 1st PT test  HT IN1 Height in Inches 0 (384) from 1st PT Test						Median	31.000
OVRL SC1 Overall score for 0 (1340) AP PUSC1 + AP SU 1st PT test  HT IN1 Height in Inches 0 (384) from 1st PT Test							4.000
OVEL SCI OVERALI SCORE FOR 0 (1340) AP PUSCI + AP SU 1st PT test  HT IN1 Height in Inches 0 (384) from 1st PT Test	,500		- 1			Maximum 2	272.000
INI Height in Inches 0 (384) from 1st PT Test	SCI	r e		PUSC1 + AP SU	Integer	# Non-missing	11
IN1 Height in Inches 0 from 1st PT Test	52 	st FT test					16.545
IN1 Height in Inches 0 from 1st PT Test							80.000
IN1 Height in Inches 0 from 1st PT Test						Minimum	4.000
INI Height in Inches 0 from 1st PT Test	7.		- 1			Maximum 4	52.000
TIOM ISC FT TEST	INI	eight in Inches			Integer	issir	ng 967
	77	com Isc Fr. Test					69.443
							000.69
	<del></del>						57.000
The state of the s						Maximum	08.000

Print Date:6/30/97 9:29 AM

Fort Bliss 1989 Codes 4D Filename - FB APRT

AP HT CM1 Heigh 1st P AP WT LB1 Weigh						
нт см1 wr lb1						
	Height in CM from	0 (384)	AP HT IN1 * 2.54	Real	# Non-missing	ng 967
	1st PT test				Mean	176.384
					Median	175.260
					Minimum	144.780
_					Maximum	274.320
1	ht in LB from	0 (410)		Integer	# Non-missing 941	ng 941
A DST					Mean	161.676
					Median	160.000
-					Minimum	000.99
					Maximum	254.000
AP WT KG1 Weight	ht in KG from	0 (410)	AP WT LB1/2.2	Real	# Non-missing	ng 941
1st P	1st PT test				Mean	73.489
					Median	72.727
					Minimum	30.000
					Maximum	115.450
	Body Mass Index	0 (412)	AP WT KG1/((AP HT CM1	Real	# Non-missing	ng 939
(kg/m^2)   calcu	calculated for 1st		/100)^2)		Mean	23.643
	est				Median	23.240
					Minimum	3.990
					Maximum	36.650
AP PT DT4 Date	of 4th PT	00/00/00		Date	Value Freq	Frequency
		000			10/17/89	126
					10/3/89	224
					10/31/89	204
					11/14/89	252
					9/19/89	201
					9/5/89	206
					00/00/00	138
					Total	1351

Fort Bliss 1989 Codes 4D Filename - FB APRT

		Walues Values	carcuracion ,	Format	Responses
AP DC4	Day of Cycle for	(138)		Tatogov	Table Commond
) )	PT Test			Tabanti	value frequency
				:	39 1
					Total 1351
AP PU4	# of push ups for	0 (181)		Integer	-missi
	the 4th PT test			•	Mean 50.934
					u
					Minimum 26.000
AP PU SC4	e for r	0 (1351)		Integer	issing
	r tes				
AP SU4	# sit ups for 4th	0 (181)		Integer	# Non-missing 1170
	PT test				
					Minimum 29.000
		- 1			Maximum 106.000
AP SU SC4	score for sit ups for 4th PT test	0 (1351)		Integer	# Non-missing 0
AP RUN MIN4	tes porti	0 (195)		Integer	# Non-missing 1156
	run time for 4th				Mean 13.898
	PT test				
		- 1			Maximum 29.000
AP RUN SEC4	orti	0 (195)		Integer	ı-missinç
	run time for 4th				Mean 29.787
	FI rest				
i		1			Maximum 69.000
AF KUN IM4	run time ror 4th	(S&T) 0	AF KUN MIN4+(AF KUN	Real	# Non-missing 1156
					ជ
					Minimum 10.830
			-	•	Maximum 29.200

Print Date:6/30/97 9:29 AM

Last Updated: 4/30/97 1:23 PM

Fort Bliss 1989 Codes 4D Filename - FB APRT

This continue							
RUN SC4         run score for 4th         0 (1347)         AP FU SC4 + AP SU SC4 + Integer         Integer           OVRL SC4         Overall score for 4th PT test         0 (1347)         AP FU SC4 + AP SU SC4 + Integer         Integer           HT IN4         Height in Inches from 4th PT Test         0 (735)         AP HT IN4*2.54         Real           HT CM4         Height in CM from 4th PT test         0 (794)         AP HT IN4*2.54         Real           WT LB4         Weight in LB from 4th PT test         0 (794)         AP WT LB4/2.2         Real           WT KG4         Weight in KG from 6th PT test         0 (794)         AP WT LB4/2.2         Real           WT KG4         Weight in KG from 6th PT test         0 (794)         AP WT LB4/2.2         Real           WT KG4         Weight in KG from 6th PT test         0 (794)         AP WT KG4/(AP HT CM4 Real         Real           WT KG4         Weight in KG from 6th PT test         0 (794)         AP WT KG4/(AP HT CM4 Real         Real	- 1	Description		Calculation	Format	Responses	
NUN SC4				***************************************			
PT Test   AP FU SC4 + AP SU SC4 + Theger   Ath PT test	RUN	re for			Integer	Non-missing	
Overall score for 4th PT test         0 (1347)         AP FUS SC4 + AP SU SC4 + Integer         Integer           Height in Inches from 4th PT Test         0 (735)         AP HT IN4*2.54         Integer           Height in CM from 6th PT test         0 (794)         AP HT IN4*2.54         Real           Weight in LB from 6th PT test         0 (794)         AP WT LB4/2.2         Real           Weight in KG from 6th PT test         0 (794)         AP WT KG4/((AP HT CM4 Real Calculated for 4th PT test         Real		PT Test					00
Overall score for 4th PT test         0 (1347)         AP PU SC4 + AP SU SC4 + Integer           Height in Inches from 4th PT Test         0 (735)         AP HT IN4*2.54         Integer           Height in CM from 6 (735)         0 (734)         AP HT IN4*2.54         Real           Weight in LB from 7 (794)         AP WT LB4/2.2         Real           Weight in KG from 6 (794)         AP WT KG4/((AP HT CM4 Real calculated for 4th PT Lest         Real           Body Mass Index calculated for 4th PT Lest         AP WT KG4/((AP HT CM4 Real calculated for 4th PT Lest         AP WT KG4/((AP HT CM4 Real pT CM4 Real calculated for 4th PT Lest							00
Overall score for 4th PT test         0 (1347)         AP PU SC4 + AP SU SC4 + Integer         Integer           4th PT test         0 (735)         AP HT IN4*2.54         Integer           Height in CM from 4th PT Test         0 (735)         AP HT IN4*2.54         Real           Weight in LB from 4th PT test 4th PT test         0 (794)         AP WT LB4/2.2         Real           Weight in KG from 4th PT test 5th PT test 5th PT CM4         AP WT KG4/(AP HT CM4 Real         Real           Body Mass Index 6calculated for 4th PT test 5th PT test         AP WT KG4/(AP HT CM4 Real         Real							00
Overall score for 4th PT test   AP FUN SC4 + AP SU SC4 + Integer							00
### ### ##############################	AP OVRL SC4	score		PU SC4 + AP SU SC4	Integer	# Non-missing 4	
Height in Inches from 4th PT Test from 4th PT Test from 4th PT Test 6 (794) AP WT LB4/2.2 Real 4th PT test 6 (794) AP WT KG4/(AP HT CM4 Real 7100)^2) PT test 6 calculated for 4th 7100)^2)		4th PT test		RUN			00
Height in Inches 0 (735) from 4th PT Test Height in CM from 0 (735) AP HT IN4*2.54 Real Weight in LB from 0 (794) Weight in KG from 0 (794) Weight in KG from 0 (794) AP WT LB4/2.2 Body Mass Index calculated for 4th PT test  Body Mass Index Calculated for 4th PT test Frest PT test							00
Height in Inches 0 (735)  from 4th PT Test  Height in CM from 0 (735)  Weight in LB from 0 (794)  Weight in KG from 0 (794)  Weight in KG from 0 (794)  Meight in KG from 0 (794)  Meight in KG from 0 (794)  Meight in KG from 1 (794)  Meight in KG from 0 (794)  Meight in KG from 0 (794)  AP WT LB4/2.2  Real  Calculated for 4th  PT test  PT test							88
Height in Inches (735)  Height in CM from (735)  Weight in LB from (794)  Weight in KG from (794)  Weight in KG from (794)  Weight in KG from (794)  Weight of Form (794)  Weigh		1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	1				3
Height in CM from   0 (735)   AP HT IN4*2.54   Real	Ï	Height in Inches			Integer	juissim-r	
Height in CM from 0 (735) AP HT IN4*2.54 Real 4th PT test Weight in LB from 0 (794) Weight in KG from 0 (794) AP WT LB4/2.2 Real 4th PT test Body Mass Index calculated for 4th PT test PT test PT test		rrom 4th PT Test				;	φ Θ (
Height in CM from 0 (735) AP HT IN4*2.54 Real  Weight in LB from 0 (794)  Weight in KG from 0 (794) AP WT LB4/2.2  Body Mass Index 0 (794) AP WT KG4/((AP HT CM4 Real / 100)^2)  PT test							20.5
Height in CM from 0 (735) AP HT IN4*2.54 Real 4th PT test Weight in LB from 0 (794) Weight in KG from 0 (794) AP WT LB4/2.2  Body Mass Index calculated for 4th PT test  Body Wass Index PT test  PT test					-		00
Height in CM from 0 (735) AP HT IN4*2.54 Real 4th PT test Weight in LB from 0 (794) Weight in KG from 0 (794) Weight in KG from 0 (794) AP WT LB4/2.2 Real Body Mass Index Calculated for 4th PT test  Body Mass Index Calculated for 4th PT test  AP WT KG4/((AP HT CM4 Real) /100)^2)						Maximum 80.0	8
Weight in LB from 0 (794)  Weight in KG from 0 (794)  Weight in KG from 0 (794)  Ath PT test  Body Mass Index 0 (794)  AP WT LB4/2.2  Real  Body Mass Index 0 (794)  AP WT KG4/((AP HT CM4 Real  7100)^2)	H	in CM		HT IN4*2		# Non-missing 616	
Weight in LB from 4th PT test       0 (794)       Integer         Weight in KG from 4th PT test       0 (794)       AP WT LB4/2.2       Real         Body Mass Index calculated for 4th PT test       0 (794)       AP WT KG4/((AP HT CM4 Real / 100)^2)						Mean 176.5	75
Weight in LB from 0 (794)  Weight in KG from 0 (794)  Weight in KG from 0 (794)  Ath PT test  Body Mass Index 0 (794)  Body Mass Index 0 (794)  PT test  Theger  Integer  Integer  Integer  Integer  Integer  Ath PT test						Median 177.8	00
Weight in LB from 0 (794)  Weight in KG from 0 (794) AP WT LB4/2.2 Real  Body Mass Index 0 (794) AP WT KG4/((AP HT CM4 Real /100)^2)  PT test						Minimum 144.7	08
Weight in LB from 0 (794)  Weight in KG from 0 (794) AP WT LB4/2.2 Real  Weight in KG from 0 (794) AP WT KG4/((AP HT CM4 Real /100)^2)  Body Mass Index 0 (794) AP WT KG4/((AP HT CM4 Real /100)^2)  PT test						Maximum 203.2	00
#th PT test   Mean   Median   Median   Median   Median   Minimum   Maximum   Maximum   Maximum   Maximum   Maximum   Median   Median   Maximum   Maximum   Maximum   Maximum   Maximum   Maximum   Maximum   Median   Median   Median   Median   Median   Minimum   Maximum   Minimum   Maximum   Maximu	AP WT LB4	in LB				# Non-missing 557	
Weight in KG from 0 (794) AP WT LB4/2.2 Real Maximum Maximum Mean Hth PT test  Body Mass Index 0 (794) AP WT KG4/((AP HT CM4 Real Maximum Mean PT test  PT test  Weight in KG from 0 (794) AP WT KG4/((AP HT CM4 Real Mean Mean Mean Mean Meximum Meximum Meximum Maximum Maximum Maximum		test					42
Weight in KG from Veight							00
Weight in KG from 4th PT test         AP WT LB4/2.2         Real # Non-missing Mean Median Median Maximum Maximum Maximum Maximum Maximum Maximum Maximum Maximum Maximum Mean PT test         AP WT KG4/(AP HT CM4 Real # Non-missing Median Meximum Meximum Minimum Maximum Maximum Maximum Maximum Maximum Maximum							00
Weight in KG from 4th PT test         AP WT LB4/2.2         Real # Non-missing Mean Median Minimum Maximum Maximum Maximum Maximum Maximum Maximum Maximum Maximum Mean PT test         # Non-missing Mean Mean Mean Mean Minimum Maximum Maximum Maximum Maximum Maximum Maximum Maximum Maximum							9
4th PT test  Median  Median  Minimum  Maximum  Body Mass Index  Calculated for 4th  PT test  Median  Minimum  Minimum  Minimum  Maximum  Median  Minimum  Maximum	AP WT KG4	in KG			Real	n-missir	
Body Mass Index   0 (794)   AP WT KG4/(AP HT CM4   Real   Mean   Median		4th PT test					74
Body Mass Index 0 (794) AP WT KG4/((AP HT CM4 Real Maximum calculated for 4th PT test Median Maximum Median Minimum Maximum Maximum Maximum							18
Body Mass Index 0 (794) AP WT KG4/((AP HT CM4 Real # Non-missing calculated for 4th PT test Median Median Minimum Maximum							00
Body Mass Index 0 (794) AP WT KG4/((AP HT CM4 Real # Non-missing Mean							40
calculated for 4th /100)^2)  Pr test Median Minimum Minimum Maximum	AP BMI4	Body Mass Index		WT KG4/((AP HT	Real	# Non-missing 557	
PT test Median Minimum Minimum Maximum	(kg/m^2)	calculated for 4th		/100)^2)			10
		PT test					09
							98
						32.	080

Fort Bliss 1989 Codes 4D Filename - FB APRT

AP BRM SC Be				
၁င		A A L CO		
	Basic Rifle Marksmanship Score	0 (1351)	Integer	Value Frequency
_				0 1351
				Total 1351
AP BRM SL Be Ma	Basic Rifle Marksmanship Skill Level		Alpha12	
AP RCYCL SI	Subject Recycled to another unit?	(57)	Alpha3	Value Frequency
אני אל	Yes No			57 no 1294 
				Total 1351
AP RC DATE Re	Recycle Date	00/00/00 (1351)	Date	# Non-missing 0
AP RC REASON Re	Reason subject was recycled		Alpha30	
AP DSCHRG St	Subject Discharged?	(57)	Alpha3	Value Frequency
Yes	Yes			57 no 1294
				 Total 1351
AP DC DATE Di	Discharge Date	00/00/00 (1351)	Date	ssing
AP DC REASON Re	Reason for discharge		Alpha30	
AP GRADUATION St	Subject Graduated?	(57)	Alpha3	Value Frequency
Yes	Yes No			57 yes 1294
				 Fotal
AP GRAD DATE G1	Graduation Date	00/00/00 (1351)	Date	sing 0
AP NOTES			Alpha30	

Print Date: 6/30/97 9:29 AM

Last Updated: 4/30/97 1:23 PM

Fort Bliss 1989 Codes 4D Filename - FB APRT

Field Name	Description	Missing Values	Calculation	Format	Responses
AP TRAIN DUR	Training Duration	0 (1351)	if (AP RC DATE>=AP DT STRI, (AP RC DATE - AP DE STREN)+1 if AP DC	Integer	# Non-missing 0
			DATE>=AP DT STRT, (AP DC DATE-AP DT STRT, if AP GRAD DATE>=AP DT STRT, (AP GRAD DATE-AP DT STRT, (AP GRAD DATE-AP		
AP SEX CODE	1=MALE 2-pemare	(0) 0	1	Integer	Value Frequency
					1 1351
AP RACE CODE	1=White	0 (1351)	Case of	Integer	Fred
	2=Black   3=Hispanic	25- نادياني	: (AP RACE="ASIAN")		0 1351
	4=Asian		: (AP RACE="A_INDIAN")		ì
	5=American indian 6=Other		; (AP RACE="BLACK")		тосат тээт
	/=Unknown		. (AP RACE="HISPANIC"		
			(AP RACE="OTHER")		
			: (AP RACE="UNKNOWN")		
			(AP RACE="WHITE")		
			1 End case		
AP UNIT CODE		0 (1351)		Integer	Value Frequency
					0 1351
					Total 1351

Fort Bliss 1989 Codes 4D Filename - FB APRT

Field Name	Description	Missing Values	Calculation	Format	Responses	808
AP RECYCLE	Subject Recycled	0 (57)	Case of	Integer	Value	Frequency
CODE	to another unit?		: (AP RCYCL="Yes")			ı
			-		2	1294
	1=Yes		: (AP RCYCL="No")		0	57
	2=No		2			1 1 1 1 1 1
			End case		Total	1351
AP DSCH CODE	Subject	0 (57)	Case of	Integer	Value	Frequency
	Discharged?		: (AP DSCHRG ="Yes")	•		ı
					73	1294
	1=Yes		: (AP DSCHRG ="No")		0	57
	2=No		7			1 1 1 1
			End case	•	Total	1351
AP GRAD CODE	Subject Graduated?	0 (57)	Case of	Integer	Value	Frequency
			: (AP GRADUATION ="Yes")			1
	1=Yes				-	1294
	2=No		: (AP GRADUATION ="No")		0	57
			2			1 1 1 1
			End case		Total	1351

Print Date:6/30/97 9:29 AM

Fort Bliss '89 Injury Codes 4D Filename - FB Injury

Field Name	Description	-ssţM	Calculation	Format Responses	
		ing			

IN SUB NUM	Subject Number	Alph	Alpha10	
IN ACC NUM	Entered as 1 for	Inte	Integer Value Frequency	
	everyone		1 626	
			Total 626	
IN LAST NAME		Alpl	Alpha15	
IN FIRST NAME		Alpl	Alpha12	
IN MI	Middle Initial	Alpha2	1a2	
IN SSN	Social Security Number	. Alpha11	na11	
IN SEX		Alpha6	na6 Value Frequency	
			MALE 626	
			Total 626	
IN AGE		Inte	eger # Non-missing 626	
			Median 18.000	
			Minimum 17.000	
			Maximum 34.000	

Fort Bliss '89 Injury Codes 4D Filename - FB Injury

- t	Description	Miss-	Calculation	Format	Responses	
IN UNIT	Basic Training Unit	(0) —		Alpha4	Value Freq	Frequency
					C1 C1B	137
					C1B9	14
					D1B	51 59
•					D1C D1C8	ω <i>α</i>
					D3	148
					D3B D3B7	10
					D3C E1	0 1
•					E33	
					Total	626
IN PLATOON	Platoon	0 (626)		Integer	Value Freq	Frequency
					0	626
					Total	626
IN ST DATE	Training start date			Date	1	Frequency
					6/1/90	<u>г</u> п
					6/22/90	7
					7/13/90	7,07
					7/28/89	) <del> </del> 1
					8/14/89	<del>.</del>
					8/18/89	92
					9/1/89	110
					9/15/89 9/29/89	137 59
					Total	709

Print Date: 8/27/97 2:30PM Last Updated: 8/27/97 11:46AM

Fort Bliss '89 Injury Codes 4D Filename - FB Injury

4) if (IN INJ DT> IN ST DATE, (IN Integer INJ DT- IN ST DATE)+1,0)  NUJ DT- IN ST DATE)+1,0)  Alpha25 Alpha10 2)	Field Name	Description	Miss- ing	Calculation	Format	Responses	
Date of injury  Day of Cycle on which o (34) if (IN INJ DT> IN ST DATE, (IN Integer injury occurred  Diagnosis  Type of Injury  (12)  Type of Injury  Date of injury  (12)  Date  Date  Alpha25  Alpha10							
Day of Cycle on which 0 (34) if (IM INJ DT> IN ST DATE) (IN Integer injury occurred  Diagnosis  Type of Injury  UNKNOWN  (12)  Alpha10  Alpha10	IN INJ DT	Date of injury			Date	# Non-missing 626 Minimum 3/5/89	526 39
injury occurred  Diagnosis  Type of Injury  (12)  Type of Injury  (12)  Type Of Universed  Type of Injury  (13)  Type Of Injury  (14)  Type Of Injury  (15)  Type Of Injury  (15)  Type Of Injury  (16)  Type Of Injury  (17)  Type Of Injury  (18)  Type Of Injury  Type Of I	Con that are	Tr	(24)	ישת דוגד וגדי	Total	MAXIMUM 9/18/	020
Minimum   Mini	TIN TING DC	injury occurred	0 (34)	THE TWO DIST	Tureder	J-missim-l	3 592 25 470
INJ DX         Diagnosis         Minimum           TYPE         Type of Injury         UNKNOWN         Alpha25         ABRSN_1           ABRSN_1         ABRSN_1         ABRSN_1         ABRSN_1         ABRSN_1         ABRSN_1         ABRSN_1         ABRSN_1         ABRSN_1         ACH_TND         BUSSITI         CONTSN         DISLOCKN         FASCITI         FRASCITI						u.	4.000
TYPE   Type of Injury   UNKNOWN   Alpha10   Value							1.000
TYPE   Type of Injury   UNKNOWN   Alpha10   Value	IN INJ DX	Diagnosis			Alpha25		
	IN TYPE	Type of Injury	UNKNOMN		Alpha10	Value Frequency	λc
ACH_TND BLISTER BURSITIS CONTSN DISLOCN FASCTIS FRACTURE OTH_TND OU_INJ PAIN STRAIN STRS_FX STRS_RXN TR_INJ UNKNOWN			(12)	-			4
BLISTER BURSITIS CONTSN DISLOCN FASCITIS FRACTURE OTHER OTLIN SPAIN SPRAIN STRAIN STRAIN STRAIN TR.INJ UNKNOWN						ABRSN_LC	29
BURSITIS CONTSN DISLOCN FASCITIS FRACTURE OTHER OTH_TND OU_INJ PAIN STRAIN STRAIN STRE_FX STRE_FX STRE_FX TR INJ UNKNOWN						BLISTER	33
CONTSN DISLOCN FASCITIS FRACTURE OTHER OTH_TND OU_INJ PAIN SPRAIN STRAIN STRAIN STRAIN STRAIN STRAIN TR_INJ UNKNOWN						BURSITIS	œ
DISLOCN FASCITIS FRACTURE OTHER OTH_TWD OU_INJ PAIN SPRAIN STRAIN STRAIN STRAIN STRAIN TR_INJ UNKNOWN	•					CONTSN	24
FASCITIS FRACTURE OTHER OTH_TND OU_INJ PAIN SPRAIN STRAIN STRAIN STRS_FX STRS_FX STRS_EX UNKNOWN						DISTOCN	m
FRACTURE OTHER OTH_IND OU_INJ PAIN SPRAIN STRS_FX STRS_FX STRS_FX STRS_EXN TR_INJ UNKNOWN						FASCITIS	O
OTHER OTH_TND OU_INJ PAIN SPRAIN STRAIN STRS_FX STRS_FX STRS_FX STRS_RXN TR_INJ UNKNOWN						FRACTURE	26
OTH_TND OU_INJ PAIN SPRAIN STRAIN STRS_FX STRS_FX STRS_RXN TR_INJ UNKNOWN						OTHER	<b>∞</b> :
OU_INJ PAIN SPRAIN STRAIN STRS_FX STRS_FX STRS_RXN TR_INJ UNKNOWN						OTH_TIND	വ
PAIN SPRAIN STRAIN STRS_FX STRS_FX STRS_RXN TR_INJ UNKNOWN						OU_INJ	77
STRAIN STRAIN STRS_FX STRS_RXN TR_INJ UNKNOWN						PAIN	124
STRAIN STRS_FX STRS_FX STRS_RXN TR_INJ UNKNOWN						SPKAIN	9/
STRS_FX STRS_FX STRS_RXN TR_INJ UNKNOWN						STRAIN	51
STRS_RXN TR_INJ TR_INJ UNKNOWN						STRS_FX	70
TR_INJ UNKNOWN Total						STRS_RXN	20
Total			1			TRING	70
Total						OINFINOWIN	77
				·		Total	626

Fort Bliss '89 Injury Codes 4D Filename - FB Injury

IN SD Side of bo injury occinive PRT Body part injured					
PRT					
PRT	Side of body on which	UK (17)	Alpha2	Value Frequency	ency
PRT	y occurred			BT	127
PRT				LLF.	7 T Q
PRT				RT	205
PRT				UK	17
PRT				Total	626
e de la companya de l	that was	UNKNOWN	Alpha8	Value Frequency	ency
		(5)		ABDMN	4
				ANKLE	61
				CALF	7 6
				ELBOW	01 5
				FACE	11
				FOOT	145
				HAND	18
				HIP	16
				KNEE	112
				LO_ARM	~ ;
				LO_BACK	4. 7.
				OTHER	0 03
				PELVIS	9
- 1999				SHIN	77
				THIGH	11
				TOE	34
				UNKNOWN	m (
				UP_ARM	ן נא
				UP_BACK	ა 2
					) !   !   !
				Total	626

Print Date: 8/27/97 2:30PM

Last Updated: 8/27/97 11:46AM

Fort Bliss '89 Injury Codes 4D Filename - FB Injury

Field Name	Description	Miss-	Calculation	Format	Responses	
IN INJ VST	Follow up of earlier	(47)		Alpha4	Value Frequency	ency
	Visit, of Lifst Visit for this injury, etc.					47
					FU M	9
					FU S	31
					NONE	22
					OTHR	108
					V1 M	48 364
					Total	
IN DSP	Disposition	UNKN (17)		Alpha4	Value Frequency	ency
					CNST.	α
					FLUP	17
					HOSP	7
				-	<u> </u>	۪ڡ
					NLB	265
	40.478.44F00				NONE	65
					NOPT	ς γ γ
					NOB	4, C
-					OTHK	0 K
					RTD	115
					UNKN	17
				2. 0. 2. E	TOLAT	
IN INJ DE	Number of Days of restricted duty			тпседег	# Non-Missing   Mean	3.422
	resulting from injury				Median	3.000
	,				Minimum	0.000
					Maximun	•

Fort Bliss '89 Injury Codes 4D Filename - FB Injury

Field Name	Description	Miss- ing	Calculation	Format	Responses	
IN XR	X-Ray			Alpha3	Value Frequency	
					CIN	14
						97
					POS	489 26
					1 1	1 0 0 0
IN XR IG	X-Ray	UNKNOMN		Alpha8	requenc	070
	Interpretation/Grade	(7)		1	•	
					FX	15
						13
					OTHER	1 1
					-	.
					Total 6	626
IN BS	Bone Scan			Alpha3	Value Frequency	>-
					QN	m
						9
					ON	553
					!	# ! 0 !
					Total	626
IN BS GRD	Bone Scan Grade	UK (11)		Alpha2	Value Frequency	>
						9
					3.5	30
						2 00
						561
					1	11
						626

2:30PM Print Date: 8/27/97

Last Updated: 8/27/97 11:46AM

Amen Clear	Description	Miss-	Ce 1 cm 1 e + + cm	<u> </u>	T + a m - C	Degroup		Γ
		ing		4	- mac	TO TEST	0	
	,							
IN TP CD	Code for IN Type	18 (12)	Case of	Ï	Integer	Value	Frequency	Γ
	1=Stress Fracture		:(IN Type="STRS_FX")				1	
			Type="STRS	7		1	70	
	3=Achilles Tendonitis		:(IN Type="ACH_TND")	e		7	20	
	4=Other Tendonitis		:(IN Type="OTH_TND")	4		3	1	
	5=Bursitis		:(IN Type="BURSITIS")	2		4	5	
	6=Fascitis		:(IN Type="FASCITIS")	9		5	<b>∞</b>	-
	7=Overuse injury		:(IN Type="OU_INJ")	7		9	6	
	9=Pain		:(IN Type="PAIN")	6		7	77	
	8=Traumatic injury		:(IN Type="TR_INJ")	8		œ	20	
	10=Strain		:(IN Type="STRAIN")	10		6	124	
	11=Sprain			11		10	51	
	12=Dislocation		:(IN Type="DISLOCN")	12		11	9/	
	13=Fracture		:(IN Type="FRACTURE")	13		12	က	
	14=Blister		:(IN Type="BLISTER")	14		13	26	
	15=Abrasion/Laceration		:(IN Type="ABRSN_LC")	15		14		
	16=Contusion		:(IN Type="CONTSN")	16		15	29	<del></del>
	17=Other		:(IN Type="OTHER")	17		16	24	
	18=Unknown		:(IN Type="UNKNOWN")	18		17	· œ	
	19=None		:(IN Type="NONE")	19		18	12	
			End Case				[	
						Total	626	
IN SD CD	Code for IN SD	5 (17)	Case of	Í	Integer	Value	Frequency	Γ
		•	:(IN SD="RT")		)		7	
	1 = Right		:(IN SD="LF")	7		н	205	
	II		:(IN SD="BT")	<u>۔</u> ع		7	218	
	11		:(IN SD="NA")	4		٣	127	
	11		:(IN SD="UK")	2		4	59	
	5 = Unknown		:(IN SD="NO")	9		ω ·	17	
	6 = None		End Case				 	
						Total	626	

Field Name	Description	Miss- ing	Calculation	Format	Respons	20 0 20 20 20 20 20 20 20 20 20 20 20 20	
							7
IN PRT CD	Code for IN Body Part	25 (3)	Case of	Integer	Value	Frequency	
	1=Head		:(IN Body Part="HEAD") 1	)		F)	
	2=Face		:(IN Body Part="FACE") 2		7	4	
	3=Neck		:(IN Body Part="NECK") 3		2	7	
	4=Chest		:(IN Body Part="CHEST") 4		m	יוי	
	5=Abdomen		Part="ABDMN")		4	) O)	
	6=Upper back		:(IN Body Part="UP_BACK") 6		Ŋ	4	
	7=Shoulder		:(IN Body Part="SHLDR") 7		9	ı LO	
	8=Upper Arm		Part="UP_ARM")		7	18	
	9=Elbow		:(IN Body Part="ELBOW") 9		&	m	
	10=Lower Arm		:(IN Body Part="LO_ARM") 1	_	6	7	
	11=Wrist		:(IN Body Part="WRIST") 13		10	7	
	12=Hand		:(IN Body Part="HAND") 1			16	
	13=Finger		Part="FINGER) 1		12	18	
	14=Lower Back		:(IN Body Part="LO_BACK") 1	4	13	11	
	15=Pelvis		IS") 1	2	14	47	
	16=Hip		:(IN Body Part="HIP") 10	9	15	9	
	17=Thigh		Part="THIGH") 1		16	16	
	18=Knee		:(IN Body Part="KNEE") 18	8	17	11	
	19=Calf		:(IN Body Part="CALF") 19	_	18	112	
	20=Shin					₩	
	21=Ankle			1		77	
	22=Foot		Part="FOOT") 2		21	61	
	23=Toe					145	
	24=0ther					34	
	25=Unknown				24		
	26=None		N Body Part="NONE") 2		25	m	
			End Case			1 1 1 1	
					Total	626	

Print Date: 8/27/97

Fort Bliss '89 Injury Codes 4D Filename - FB Injury

Field Name	Description	Miss- ing	Calculation	Format	t Respons	nses
IN VST CD	Code for IN INJ VST	0 (47)		Integer	r Value	Frequency
	2=V1 M				7	364
	3=FU S				0.00	48
	4=FU M				Υ) «	T
	5=OTHR 7-NONE				 4. r.	108
	/-nowe 0=Missing					727
	1				0	
					Total	626
IN DSP CD	Code for IN Disp	10 (17)	Case of	Integer	r Value	Frequency
	turn to		IN Disp="RTD")	1		
	2=Light Duty				7	115
-	3=PT own pace		Disp="PTOP")	-	- 5	9
	4=No upper body		Disp="NUB")		ω.	23
	5=No lower body		Disp="NLB"	<del></del>	4 1	47
	I.d ON=9		D1SD="NOF")	· .	<u>α</u>	262
	/=Hospital			-	0 1	3.0 0
	8=consult		DISD="CNSE"/		- α	<b>1</b> 0
	y=Utner 10-mbhom	war.	Disp="OIRK")		ο σ	ر م تر
	11-Non		Disp-"NONE")		, -	7 6
	12=Follow ID		Disp="FILID")			, LC
	40 1111		Case	<del></del>	12	17
					E	909
	- 6			1	+	020
IN XR CD	X-Ray Code			Integer	r   Value	Frequency
	1 = POS(Positive)				<del>~</del> 1	26
	2 = NEG(Negative)				7	97
	ti				<u>ო</u>	14
	11				<u>ი</u>	489
	o = NO(NOME)			<del></del>	Total	י

Print Date: 8/27/97 2:30PM

Last Updated: 8/27/97 11:46AM

Fort Bliss '89 Injury Codes 4D Filename - FB Injury

Field Name	Description	Miss- ing	Calculation	Format	Responses	ISES
IN XR IG CD	X-Ray Interpretation/Grade	11 (7)		Integer	Value	Frequency
	Code	·*************			m	15
	<pre>1 = Cort Tn(Cortical Tunneling)</pre>				110	0 1 7
	2 = NB Form(New bone formation)				12	13
	11 11				Total	626
	5 = 2+FX 6 = 1,2+FX					
	11 6					
	= NA					
	10 = Other 11 = Unknown 12 = None	······································				
IN BS CD	မျှ			Integer	Value	Frequency
ga	lì					64
	<pre>2 = NEG(Negative) 3 = ND(Not Determined)</pre>				07 W	<b>ю</b> т
	11 1				Ω	553
					Total	626
IN BS GR CD	Bone Scan Grade Code	10 (11)		Integer	Value	Frequency
	11				<b>Η</b> (	<b>ω</b> (
	II II				7 M	30 10
	5 = 5		40-10-10-10-10-10-10-10-10-10-10-10-10-10		4 8	8 561
	11 1				10	17
					Total	626
Print Date: 8/27/97	2:30PM Last	pdated: 8	Updated: 8/27/97 11:46AM	Page: 10	10	

## ADDITIONAL CODING NOTATIONS OF INJURY VARIABLES IN THE FORT BLISS/JACKSON DATABASE

## Coding of injury type based on injury diagnosis

INJ DX LISTS:	INJ TYPE CODED AS:	NOTES
ganglion cyst	OUS/NOS	
ingrown toenail	OUS/NOS	
shin splints	OUS/NOS	
PFS (patella femoral syndrome)	OUS/NOS	
paronychia/onychogryphosis	OUS/NOS	
RPPS	OUS/NOS	overuse of the knee
exercise-related injury	OUS/NOS	
pain/overuse	OUS/NOS	use the more specific response
corns/bunions (foot problem)	PAIN	these are painful foot problems
numbness	PAIN	
loss of feeling	PAIN	
spasm (only)	PAIN	spasm is listed by itself
CWP (chest wall pain)	PAIN	
chest muscular pain	PAIN	
chest pain/tenderness	PAIN	assume to be muscular pain
spasm/strain	STRAIN	
muscle/tendon	STRAIN	
pulled muscle	STRAIN	
muscle tear	STRAIN	
trauma/joint	SPRAIN	
hyperextension	SPRAIN	
ligament/MCL (ligament)	SPRAIN	
twisted	SPRAIN	
trauma/non-joint	CONTUSION	
soft/deep tissue injury	CONTUSION	
splinter	ABRSN_LC	consider this a type of laceration
rope burn	ABRSN_LC	consider this a type of abrasion
injury listed as diagnosis	ACT_TR/NOS	
callouses	OTHER	record as PAIN if mentioned in DX
costochondritis	OTHER	
xray/bone scan entry only	UNKNOWN	no info is given regarding inj type

<sup>\*\*</sup>special consideration to coding changes as follows:

<sup>\*\*</sup>if diagnosis entry is incomplete and only mentions a body part, then add "injury" to DX entry and code injury type as: UNKNOWN...(ex...diagnosis only lists "hand", change to "hand injury" and code this as injury type=UNKNOWN)

<sup>\*\*</sup>if injury type is not given in the diagnosis or injury type=?, code type as: UNKNOWN
\*\*if diagnosis lists "blister" and "cellulitis", move this entry to the illness file and code as a bacterial infection for illness type

## ADDITIONAL CODING NOTATIONS OF INJURY VARIABLES IN THE FORT BLISS/JACKSON DATABASE

#### Recoding injury type to a downgrade

INJ DX LISTS:

INJ TYPE CODED AS:

**NOTES** 

R/O FX

R/O STRS FX

R/O STRS\_RXN/PAIN R/O STRS\_RXN R/O OUS (overuse)

ACT\_TR/NOS STRS\_RXN PAIN

**OUS/NOS** PAIN

Xray results are not mentioned Xray results are not mentioned w/o Xray results, code as PAIN Xrays/"pain" are not mentioned applies if "pain" listed/not listed

## Coding of body part side if side is not mentioned

INJ PART LISTS:

INJ SIDE CODED AS:

NOTES

LO\_BACK/UP\_BACK CHEST or ABDOMEN

N/A N/A

## Recoding of body part

**INJ PART LISTS:** 

INJ PART CODED AS:

**NOTES** 

groin

tailbone/coccyx

buttocks

wrist

tibia (inner leg) fibula (outer leg)

leg (not specific)

**PELVIS** 

**PELVIS** 

LO\_BACK

LO\_ARM

SHIN or CALF

CALF CALF low back usually includes buttocks

medial=CALF; distal=ANKLE medial=CALF; distal=ANKLE

\*\*special consideration to coding changes as follows:

## Coding of appropriate body part in relation to injury diagnosis

INJ DX LISTS:

INJ PART CODED AS:

**NOTES** 

shin splints

**CALF or SHIN** 

achilles tendonitis

**FOOT** 

<sup>\*\*</sup>injury diagnosis lists multiple body parts...try to choose the most appropriate part, otherwise; code body part as OTHER

# ADDITIONAL CODING NOTATIONS OF INJURY VARIABLES IN THE FORT BLISS/JACKSON DATABASE

### Coding of injury dispositions

INJ DISP LISTS:	INJ DISP CODED AS:	NOTES
RTC/PRN TL-2	RTD NLB	return to clinic as needed
TU-2 PROFILE CODEC	NUB NOPT, NLB, or NUB	code dependent upon dx+body part
"crutches" "soft shoe"	OTHER OTHER NLB	

## Coding days lost/disposition in conjunction with each other (based on med rec reviews)

#### **INJ DISP/DL LISTS:**

## INJ DISP/DL CODED AS: NOTES

disp=RTD, dl=# (>0)	NUB/NLB with di=# (>0)
disp=NLB/NUB/NOPT, dl=? or dl=0	NLB/NUB/NOPT with dl=1
disp=xxx, dl>1	disp=xxx, dl=2
disp=0, dl=0	disp=RTD, dl=0
disp/dl=blank, dx="follow-up"	disp=FLUP, dl=0
disp=blank, dl=0 or dl=blank	disp=RTD, dl=0
disp=blank and dl=# (>0)	disp=UNKN with dl=# (>0)

disp depends on dx + body part

## \*\*FOR OVERLAPPING DAYS LOST:

- (1) If second visit has disp=FLUP, and there is a balance of days lost from previous visit, (overlapping days) then continue profile with remainder of days lost.
- (2) If second visit has disp=RTD and dl=0, then profile is stopped and days lost is then reduced from previous visit (so that number of days dispensed does not extend past second visit).
- (3) If initial disp=NUB for first visit with days dispensed and second visit has a disp=NLB with days dispensed, then both profiles can exist without changing overlapping days lost from first visit.

<sup>\*\*</sup>special consideration to coding changes as follows:

<sup>\*\*</sup>injury diagnosis is listed as xray/bone scan entry only and no disposition or days lost is given, code disp = NONE and DL = 0

<sup>\*\*</sup>injury diagnosis lists xray/bone scan results only and no disposition or days lost is given, add these results to a previous injury entry, if applicable, otherwise; code as above

## ADDITIONAL CODING NOTATIONS OF INJURY VARIABLES IN THE FORT BLISS/JACKSON DATABASE

Coding of bone scan and xray results (including interpretation grade (IG) for Fort Bliss)

XRAY/BONE SCAN RESULTS:

XRAY/BS IG CODED AS: NOTES

if XRAY=NO

XRAY IG=NA

if XRAY=NEG

XRAY IG=NA

if BONE SCAN=NO

BONE SCAN IG=NA

if BONE SCAN=NEG

BONE SCAN IF=NA

Recoding of injury types into overuse and traumatic categories

## **OVERUSE CATEGORY:**

## TRAUMATIC CATEGORY:

STRS\_FX (stress fracture)

FX (fracture)

STRS\_RXN (stress reaction)

**DISLOCN** (dislocation)

ACH\_TNDNTS (achilles tendinitis)

SPRAIN

OTH\_TNDNTS (other tendinitis)

STRAIN

**BURSITIS** 

CONTSN (contusion)

**FASCITIS** 

ABRSN\_LC (abrasion/laceration)

PAIN

BLISTER

OUS/NOS (overuse/not specified)

ACT\_TR/NOS (acute trauma/not specified)

SPECIAL NOTE: If any injury entry cannot be located in the medical record review abstracts, or verified elsewhere, then insert a double asterisk (\*\*) at the beginning of the injury diagnosis text field

<sup>\*\*</sup>special consideration to coding changes as follows:

<sup>\*\*</sup>if there is no record of a bone scan/xray being performed, then code XR/BS=NO under results

<sup>\*\*</sup>Note: xray results could be positive with IG=NONE, so use IG=NA when xray is negative

Fort Bliss '89 Illness Codes 4D Filename - FB ILLNESS

Field Name	Description	Missing	Calculation	Format	Responses
		Values			

Subject Number		Alpha10	
Entered as 1 for		Integer	Value Frequency
everyone		***************************************	
			Total 362
		Alpha15	
		Alpha12	ı
Middle Initial	(345)	Alpha2	# Non-missing 17
Social Security Number	. (325)	Alpha11	# Non-missing 37
		Alpha6	Value Frequency
			<b>MALE</b> 362
		<del></del>	 Total 362
	(362)	Alpha8	Value Frequency
	-	<del></del> ,	362
			Total 362
	0 (342)	Integer	Value Frequency
			22 25 2
		- 13	
			Total 362

Print Date: 8/27/97 3:00PM

Last Updated: 8/27/97 9:35AM

M

Fort Bliss '89 Illness Codes 4D Filename - FB ILLNESS

Field Name	Description	Missing Values	Calculation	Format	Responses
II. UNIT	Basic Training Unit			1 hodal	
				Alpha4	value Frequency
					C1 102
				·····	
					, & , C
					E1 48
					 Total 362
IL PLATOON	Platoon	0 (362)		Integer	,requenc
					0 362
					Total 362
IL ST DATE	Training start date			Date	-missing
					Minimum 7/21/89
IL ILL DT	Date of illness			Date	# Non-missing 362
					Minimum 7/17/89 Maximum 7/24/90
IL ILL DC	Day of Cycle on which	0 (38)	if (IL ILL DT>=IL ST DATE,	Integer	# Non-missing 324
	TITHES OCCULIED		(15 155 DI-15 ST DATE)+1,0)		Mean 27.102   Median 28.000
					Minimum 1.000
IL DX	Diagnosis			Alpha25	
IL TEMP	Temperature	0 (124)		Real	# Non-missing 238
	-32/34/24/24				Median 98.800
					Marimum 94.000

Print Date: 8/27/97 3:00PM

Last Updated: 8/27/97 9:35AM

Fort Bliss '89 Illness Codes 4D Filename - FB ILLNESS

			,			
Field Name	Description	Missing Values	Calculation	Format	Responses	83
IL ILL TP	Type of Illness	16 (4)		Alpha8	Value Fr	Frequency
					ALLIRG	16
					ARRYTH	П
					BACT	77
					BITE	9
		***			ENVRN	⊣
					HEAT	⊣
					INFLAM	22
٠					NONE	7
					NS_RASH	36
					OTHER	58
					UNKNOMN	4
					UNK_INF	24
					VIRAL	114
					Total	362

Fort Bliss '89 Illness Codes 4D Filename - FB ILLNESS

Description M:	Missing Values	Calculation	Format	Responses	
affected by	UNKN (8)		Alpha8	Value Frequency	ıcy
				BTH_GI	ω w
				DERM	64
				EARS	9 -
				EYES	15
		,		HEART	, m ,
				LO_GI LO_RESP	/ T
				NONE	70 70 70
				PSYCH	r <
				UNKNOWN	# œ
				UP_GI UP_RESP	13 169
					4
				Total	362
of earlier	(44)		Alpha4	Value Frequency	тсу
for this illness.					44
		****		FU M	2 7
		٠		NONE	63
				OTHR	31
				VI S	197
				Total	362

Print Date: 8/27/97 3:00PM

Last Updated: 8/27/97 9:35AM

Fort Bliss '89 Illness Codes 4D Filename - FB ILLNESS

Field Name	Description	Missing	Calculation	Format	Responses	
IL DSP	Disposition	UNKN (16)		Alpha4	Value Frequency	ıcy
					CNST	13
					HOSP	35
					NONE	27
					NOPT	23
		-			OTHR	13
					QRTR	13
					RTD	211
						- 1
					Total	362
IL ILL DL	Number of Days of			Integer	Value Frequency	ıcy
	restricted duty					77
	resulting from illiess					26
						24
						ט ע
						1 (2)
						ς,
			,		15 T	71
					E + C E	
						77

Print Date: 8/27/97 3:00PM

Last Updated: 8/27/97 9:35AM

Fort Bliss '89 Illness Codes 4D Filename - FB ILLNESS

						-	
Field Name	Description	Missing Values	Calculation	Format	at	Responses	8.0
IL TYPE CD	Code for IL Type	16 (4)	Case of	Integer	rer	Value F	Fremiency
	1=Viral Illness		:(IL ILL TP="VIRAL")	<del>-</del>	ļ		Former -
	2=Bacterial Illness		:(IL ILL TP="BACT")	7		1	114
	3=Unknown Infection		:(IL ILL TP="UNK INF")	m		0	77
	4=Inflammation		:(IL ILL TP="INFLAM")	4		m	24
	5=Non-Specific Rash		:(IL ILL TP="NS_RASH"	2		4	22
	6=Immunological		:(IL ILL TP="IMMN")	9		Ŋ	36
	7=Allergy		:(IL ILL TP="ALLRG"	7		7	16
	8=Arrythmia		:(IL ILL TP="ARRYTH")			œ	•
	9=Cardiovascular-other		:(IL ILL TP="CV_OTHER")	6		12	ı <del></del>
	10=Blood		:(IL ILL TP="BLOOD")	10		13	l <del>(</del> 1
	11=Cold		:(IL ILL TP="COLD")	11		14	ı
	12=Heat		:(IL ILL TP="HEAT")	12		15	58
	13=Environmental		:(IL ILL TP="ENVRN")	13	•	16	7
	14=Bite		:(IL ILL TP="BITE")	14		17	' 6
	15=Other		:(IL ILL TP="OTHER")	15			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	16=Unknown		: (IL ILL TP="UNKNOWN")	16		Total	362
	17=None		:(IL ILL TP="NONE")	17			1
			End Case				

Print Date: 8/27/97 3:00PM

Last Updated: 8/27/97 9:35AM

Pag

Fort Bliss '89 Illness Codes 4D Filename - FB ILLNESS

Field Name	Description	Missing Values	Calculation	Format	Responses	
IL SYS CD	Code for IL System	18 (8)		Integer	Value Frequency	\rangle \text{\rangle}
			SYS="UP_RESP")		,	
	2=Lower Respiratory		SYS="LO_RESP")		16	<u></u>
	3=Upper		:(IL SYS="UP_GL")		•	~ ~
	dascromicescrina.		SVS="RTH GT")		- <del></del>	
	Gastrointestinal		SYS="URN TR")			. &
	5=Both				9	4
	Gastrointestinal		SYS="STD")			
	6=Urinary Tract		SYS="DERM")			4
	7=Genital/Reproductive		SYS="HEART")		9	<del></del>
	8=Sexually Transmicted		: (IL SIS="CIRC")			n 4
	9=Dermatology		SYS="EYES")		•	- LO
	10=Heart		SYS="EARS")		ı	
	11=Circulatory/		SYS="PSYCH")			7
	Vascular		_			
	12=Central Nervous		SYS="OTHER")		2	0
	System		SYS="UNKNOWN")			<u> </u>
	13=Eyes		SYS="NONE")			~
	I4=Ears		End Case			1
	15=Psychological				Total 362	~
	17-Other					
	1 / =0 clier					
	19=None					
IL VST CD	1=V1 S	0 (44)			Value Frequency	ζζ
	Z=VI M					
	A=FIT M				197	+ 1
	5=0THR				1	
	6=UNKN			·	3 14	4
	7=NONE					~ .
					7 63	- · ·
					Total 36,	10

Print Date: 8/27/97 3:00PM

Last Updated: 8/27/97 9:35AM

Fort Bliss '89 Illness Codes 4D Filename - FB ILLNESS

Field Name	Description	Missing	Calculation	Format	Responses	TO.
	•	Values				i
IL DISP CD	Code for IL Disp	9 (16)	Case of	Integer	Value Fr	Frequency
	1=Return to duty		:(IL DSP="RTD") 1	•		1
D-154-1	2=Light Duty		:(IL DSP="LD") 2		<del>1</del>	211
	3=PT own pace		:(IL DSP="PTOP") 3		7	œ
	4=No PT		:(IL DSP="NOPT") 4	=	m	ĸ
	5=Quarters		:(IL DSP="QRTR") 5		4	23
	6=Hospital		:(IL DSP="HOSP") 6		5	13
	7=Consult		:(IL DSP="CNSL") 7	-	9	35
	8=Other		:(IL DSP="OTHR") 8		7	13
	9=Unknown		:(IL DSP="UNKN") 9		80	13
	10=None		:(IL DSP="NONE") 10		6	16
			End Case		10	27
						1111111
					Total	362

Print Date: 8/27/97 3:00PM

Last Updated: 8/27/97 9:35AM

# ADDITIONAL CODING NOTATIONS OF ILLNESS VARIABLES IN THE FORT BLISS/JACKSON DATABASE

## Coding of illness type and illness system based on illness diagnosis

ILL DX LISTS:	ILL TYPE CODED AS:	ILL SYSTEM CODED AS:	<u>NOTES</u>
smallpox problem immunization reaction allergy reaction asthma	ALLRG ALLRG ALLRG ALLRG	OTHER OTHER OTHER LO_RESP	
dysuria sinusitis pneumonia strep throat	BACT BACT BACT BACT	STD UP_RESP LO_RESP UP_RESP	
sunburn	ENVRN	DERM	
epididymitis gastritis nausea vomiting abdominal pain/vomiting acne	INFLAM INFLAM INFLAM INFLAM INFLAM INFLAM	GENTL UP_GI UP_GI UP_GI UP_GI DERM	
tinea/fungus PFB (pseudofollicular)	NS_RASH NS_RASH	DERM DERM	
diarrhea bronchitis conjunctivitis gastroenteritis	UNK_INF UNK_INF UNK_INF UNK_INF	LO_GI UP_RESP EYES BTH_GI	**[1]
chest congestion nasal/sinus congestion r/o pneumonia URI acute respiratory disease sorethroat pharyngitis	VIRAL VIRAL VIRAL VIRAL VIRAL VIRAL	LO_RESP UP_RESP LO_RESP UP_RESP UP_RESP UP_RESP UP_RESP UP_RESP	

<sup>\*\*</sup>special consideration to coding changes as follows:

1

Illcd.wp.8.9.97 ·

<sup>\*\*[1]</sup> if diagnosis entry for conjunctivitis specifies bacterial or viral, then code accordingly as BACT or VIRAL instead of UNK\_INF

# ADDITIONAL CODING NOTATIONS OF ILLNESS VARIABLES IN THE FORT BLISS/JACKSON DATABASE

### Recoding illness entries for prescription refills, lab tests, xrays, and exams

ILL DX LISTS:	ILL TYPE CODED AS:	ILL SYSTEM CODED AS:	DISP	<u>NOTES</u>
rx refills rx refill inhalers acne meds	OTHER OTHER INFLAM	OTHER LO_RESP DERM	NONE NONE RTD	**[1] **[2]
lab work urine/blood work result lab/tr bld occult/nsu /antibiotics	OTHER OTHER BACT	UNKNOWN URN_TR URN_TR	NONE NONE RTD	**[3] **[4]
chest xray sinusitis xray report	OTHER BACT	UNKNOWN UP_RESP	NONE RTD	**[5]
eye exam	OTHER	EYES	NONE	

<sup>\*\*</sup>special consideration to coding changes as follows:

### Coding of illness disposition and days lost

ILL DISP LISTS:	ILL DISP CODED AS:	ILL DL CODED AS:	<u>NOTES</u>
PFB/shaving profile with dl=10	RTD	dl=0	**[1]
bed rest with dl=#	QRTR	dl=#	
no profile	NONE	dl=0	

<sup>\*\*</sup>special consideration to coding changes as follows:

<sup>\*\*[1]</sup> if it can be determined what the prescription is for, then code the system accordingly and disposition remains as NONE

<sup>\*\*[2]</sup> if a partial diagnosis is given, or clarifies what the prescription is for, then code the type and system accordingly, and code the disposition as RTD

<sup>\*\*[3]</sup> if it can be determined what the lab work is for, then code the system accordingly and disposition remains as NONE

<sup>\*\*[4]</sup> if a partial diagnosis is given, or clarifies what the lab work is for, then code the type and system accordingly, and code the disposition as RTD

<sup>\*\*[5]</sup> if a partial diagnosis is given, or clarifies what the xray is for, then code the type and system accordingly, and code the disposition as RTD

<sup>\*\*[1]</sup> the shaving profile does not interfere with the basic training schedule, so disposition is coded as RTD with dl=0

# ADDITIONAL CODING NOTATIONS OF ILLNESS VARIABLES IN THE FORT BLISS/JACKSON DATABASE

Coding days lost/disposition in conjunction with each other (based on med rec reviews)

### ILL DISP/DL LISTS:

## ILL DISP/DL CODED AS: NOTES

disp=RTD, dl=# (>0)

LD/PTOP with dl=# (>0)

choosing disp depends on dx + type

+ system

disp=0, dl=0

disp=RTD with dl=0

disp=blank, dl=0 or dl=blank

disp=RTD with dl=0

disp=blank and dl=# (>0)

disp=UNKN with dl=# (>0)

SPECIAL NOTE: If any illness entry cannot be located in the medical record review abstracts, or verified elsewhere, then insert a double asterisk (\*\*) at the beginning of the illness diagnosis text field

<sup>\*\*</sup>special consideration to coding changes as follows:

<sup>\*\*</sup>illness diagnosis is listed as xray entry only and no disposition or days lost is given, code disposition as NONE and dl = 0

<sup>\*\*</sup>illness diagnosis lists xray results only and no disposition or days lost is given, but there is a previous diagnosis entry, then add these results to the previous illness entry, if applicable, otherwise; code as above

Fort Bliss 89 Questionnaire 4D Filename - Bliss Quest

O Sub Num Subject O Last Name O SSN Social S O Age	Subject Number, unique Social Security Number Integer portion of height in inches	ипп				
Num Subject Name Social Integer	unique	ннн				
Social Social Social	Number	ннн		Alpha10		
Social Social Integer	Security Number	нн		Alpha15		
N	portion of height in	Ħ		Alpha11		
8	portion of height in		(0) 0	Integer	# Non-missing	ng 1364
HT IN	portion of height in			,	Mean	19.039
HT IN	portion of height in				Minimum	17.000
***************************************		Н	0 (2)	Integer	1.55	ing 1362
					Mean	69.470
					Minimum	000.09
Q HTQ Quarter	Quarter Inch portion of height	I	0 (745)	Integer	Value Freq	∙ા>⊦
	inches				н	154
α.	inches				7	340
4	inches				m 0	125 745
					,	- 1
					Total	1364
Q WT Weight	in pounds	I	0 (3)	Integer	# Non-missing	ng 1361
					Mean Wed: 25	162.672
					Minimum	106.000
					Maximum	250.000
	Training Unit	ĭ	(0) 0	Integer	Value Freq	uency
2=D3	(Company 2)				10	298
	(Company 3)					224
	(Company 4)					214
	(Company 5) (Company 6)					262 262
					Total	1364

Fort Bliss 89 Questionnaire 4D Filename - Bliss Quest

Field Name	Description	Quest #	Missing Values	Format	Responses	8
ў Бау	Day on which questionnaire was filled out	H	(0) 0	Integer	missing	J 1364 18.948
					Median Minimum Maximum	19.000 2.000 30.000
Q Month	Month during which questionnaire was filled out	н		Integer	Value Frequency 7 421 8 436 9 507 Total 1364	uency 421 436 507 1364
Q Year	Year during which questionnaire was filled out 9 = 1989	Ι		Integer	Value Frequency 9 1364  Total 1364	nency 1364  1364
Q Sex	1=male 2=female	I	(0) 0	Integer	Value Frequency 1 1364  Total 1364	luency 1364  1364
Q Phys Act	In regards to your overall physical activity how would you describe your life compared to others of your age and sex? 1=very inactive 2=somewhat inactive 3=average 4=active 5=very active	II 1	0 (1)	Integer	Value Frequency 1 13 2 78 3 474 4 550 5 248 0	uency 13 78 474 550 248 1
Q Phys Fit	Compared to others of your age and sex, how would you rate your physical fitness? 1=poor 2=below avg 3=average 4=above avg 5=excellent	II 2	0 (5)	Integer	Value Frequency 1 7 7 7 7 7 128 3 707 4 441 5 76 0 5 5 76 76 76 76 76 76 76 76 76 76 76 76 76	uency 7 128 707 441 76 5

Print Date:6/27/97 12:42 PM

Last Updated: 6/27/97 12:42 PM

Fort Bliss 89 Questionnaire 4D Filename - Bliss Quest

Field Name	Description	Quest	Missing	Format	Re	Responses
		i i	200			
Q Jobact	What level of activity describes your most recent job prior to this tour? 1=sedentary 2=light work	II 3	0 (5)	Integer	Value 1 2 3	Frequency 135 433 457
	5=meanum work 4=heavy work 5=very heavy work				# IV O	100
0000		TTT 1	0 (7)	Tnteger	Total	1364
Fascini	in your mi			1000 000 0111	0 2 1 (C)	7.000 P. 1.00
	7=no				Total	1364
Q Yrlinj	Year of first injury that caused lost days.	III 1	0 (811)	Integer	Value 1	Frequency 153
					1 M A	4.0
	4=1987				22.4	121
	5=1988 6=1989				90	98 811
					Tota1	1364
Q Yr2Inj	Year of second injury that caused lost days.	III 1	0 (1222)	Integer	Value 1	Frequency 40
	1=before 1985 2=1985				M 173	19 15
	3=1986				4	31
	4=1987 5=1988				ა დ	
	6=1989				0	12
					Total	1364

Fort Bliss 89 Questionnaire 4D Filename - Bliss Quest

Description	Quest #	Missing Values	Format	Re	Responses
Type of first injury that caused lost	III 1	0 (815)	Integer	Value	Frequency
days.				-	99
Lty				7	54
ty				m	46
				4	7
				വ	æ
				9	9
Knee				7	133
7=Sprain, trauma Lower Ext				<b>œ</b>	20
er Ext				σ	5
r Ext				10	11
er Ext				11	29
				12	2
				13	39
				14	Ŋ
14=Contusions, bruises				15	19
				16	ന
				17	മ
inj				18	<b>~</b>
inj				21	88
				0	815
				Total	1364

Print Date:6/27/97 12:42 PM

Fort Bliss 89 Questionnaire 4D Filename - Bliss Quest

Field Name	Description	Quest #	Missing Values	Format	Rei	Responses
Q Typ2Inj	Type of second injury that caused lost days.  1=Fx lower extremity 2=Fx upper extremity 3=Fx hand 4=Fx Axial Spine 5=Other Fx 6=Torn Cartilage, Knee 7=Sprain, trauma Lower Ext 9=Pulled muscle Lower Ext 9=Pulled muscle Lower Ext 11=Back or neck pain 12=Stress Fx 13=Lacerations 14=Contusions, bruises 15=Head injuries 16=Eye injuries 17=Internal Abdomen inj 18=Internal Chest inj 21=Other	III 1	0 (1214)	Integer		Frequency 12 17 14 41 41 2 2 3 4 4 11 2 2 11 2 2 11 4 4 1 13 6 1 13 6 1 13
Q Surgery	Have you ever had an injury(s) or accident(s) that required surgery to repair the damage? 1=yes 2=no	III 2	(8)	Integer	Value 1 2 2 0 Total	Frequency 298 1058  1364
Q Yr1Srgry	Year of first surgery injury. 1=before 1985 2=1985 3=1986 4=1987 5=1988 6=1989	III 2	0 (1076)	Integer	Value 1 2 3 4 4 6 6 7 Total	Frequency 139 27 19 39 36 28 1076 

Fort Bliss 89 Questionnaire 4D Filename - Bliss Quest

Name	Description	Quest #	Missing Values	Format	Re	Responses
	Year of second surgery injury.	III 2	0 (1321)	Integer	Value	Frequency
	1=before 1985			ı		_ 25_
	2=1985				7	7
	3=1,986				m	4
	4=198/				4	Ø
	5=1988				ល	-
	6=1989				9	m
					0	1321
						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
0 Type1Srary	Thme of first surgent inium.	777	11071	T ( ) ( ) ( )	Total	1364
7 - 7			(TO (TO)	тыседек	Value	Frequency
	2=FX upper extremity				<b>⊣</b> C	L3
	3=FX hand				7 0	9 6
	4=Fx Axial Spine				o <	י ע
	5=Other Fx				יט יו	ر د د
	6=Torn Cartilage, Knee				י נ	H F
	7=Sprain, trauma Lower Ext					ر بر بر
	8=Sprain, trauma Upper Ext				- 00	o 0
	9=Pulled muscle Lower Ext				11	· ←
	10=Pulled muscle Upper Ext				13	108
	11=Back or neck pain				15	9
	12=Stress Fx				16	ייי א
	13=Lacerations				17	, α
	14=Contusions, bruises				18	0 00
	15=Head injuries				21	70
	16=Eye injuries				0	1074
	17=Internal Abdomen inj				,	!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
	ᅜ				Total	1364
	21=Other					1

Print Date:6/27/97 12:42 PM

Fort Bliss 89 Questionnaire 4D Filename - Bliss Quest

Field Name	Description	Quest #	Missing Values	Format	Respons	nses
Q Type2Srgry	Type of second surgery injury.  1=Fx lower extremity 2=Fx upper extremity 3=Fx hand 4=Fx Axial Spine 5=Other Fx 6=Torn Cartilage, Knee 7=Sprain, trauma Lower Ext 8=Sprain, trauma Upper Ext 9=Pulled muscle Upper Ext 10=Pulled muscle Upper Ext 11=Back or neck pain 12=Stress Fx 13=Lacerations 14=Contusions, bruises 15=Head injuries 16=Eye injuries 17=Internal Chest inj 18=Internal Chest inj 2=Cother	III 2	0 (1319)	Integer	Value Fre 2 3 3 7 7 11 13 16 21 0 Total	Frequency 2 1 2 4 4 4 1319 1364
Q Hospinj	Have you ever had an accident(s) or injury(s) that caused you to be in the hospital overnight? 1=yes	III 3	0 (14)	Integer	Value Fre 1 2 0 Total	Frequency 219 1131 14 14 1364
Q Yr1Hosp	Year of first hospital injury. 1=before 1985 2=1985 3=1986 4=1987 5=1988 6=1989	III 3	0 (1155)	Integer	Value Fre 2 3 4 4 5 6 0 Total	O'

Fort Bliss 89 Questionnaire 4D Filename - Bliss Quest

Field Name	Description	Quest #	Missing Values	Format	Responses
Q Yr2Hosp	Year of second hospital injury. 1=before 1985 2=1985 3=1986 4=1987 5=1988 6=1989	111 3	0 (1339)	Integer	Value Frequency 2 7 7 3 2 4 4 2 6 3 9 0 1339
у туріновр	Type of first hospital injury.  1=Fx lower extremity 2=Fx upper extremity 3=Fx hand 4=Fx Axial Spine 5=Other Fx 6=Torn Cartilage, Knee 7=Sprain, trauma Lower Ext 8=Sprain, trauma Upper Ext 9=Pulled muscle Upper Ext 10=Pulled muscle Upper Ext 11=Back or neck pain 12=Stress Fx 13=Lacerations 14=Contusions, bruises 15=Head injuries 16=Eye injuries 16=Eye injuries 17=Internal Abdomen inj 18=Internal Chest inj 21=Other	111 3	0 (1150)	Integer	면 건 ()

Print Date: 6/27/97 12:44 PM

Fort Bliss 89 Questionnaire 4D Filename - Bliss Quest

Field Name	Description	Quest #	Missing Values	Format	Resi	Responses
Q Typ2Hosp	Type of second hospital injury.  1=Fx lower extremity 2=Fx upper extremity 3=Fx hand 4=Fx Axial Spine 5=Other Fx 6=Torn Cartilage, Knee 7=Sprain, trauma Lower Ext 8=Sprain, trauma Upper Ext 9=Pulled muscle Lower Ext 11=Back or neck pain 12=Stress Fx 13=Lacerations 14=Contusions, bruises 15=Head injuries 16=Eye injuries 17=Internal Abdomen inj 18=Internal Chest inj 21=Other	111 3	0 (1335)	Integer	Value F1 2 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Frequency 1 1 2 2 3 3 3 3 3 3 4 4 4 4 4 4 4 4 4 4 4 4
Q LBackInj	Have you ever had a lower back injury? 1=yes 2=no	III 4	0 (68)	Integer	Value Fi 1 2 0 Total	Frequency 142 1154 68 
Q Leginj	Have you ever had a leg injury? 1=yes 2=no	III 4	0 (45)	Integer		Frequency 366 953 45 
Q Feetinj	Have you ever had a foot injury? 1=yes 2=no	III 4	(89) 0	Integer	Value Fr 1 2 0 Total	Frequency 315 981 68 1364

Print Date: 6/27/97 12:44 PM

Last Updated: 6/27/97 12:42 PM

Fort Bliss 89 Questionnaire 4D Filename - Bliss Quest

Have you ever had an arm or trunk injury? III 4 0 (71) Integer Value Freq 2 = 100	Field Name	Description	Quest #	Missing Values	Format	Re	Responses
Have you ever had an arm or trunk injury? III 4 0 (71) Integer Value 1 = yes 2 = no 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0							
2=no  Year of most recent lower back injury. III 4 0 (1228) Integer Value 1=before 1985 3 = 1986 4 = 1987 5 = 1988 6 = 1989 Year of most recent leg injury. III 4 0 (1013) Integer Value 1=before 1985 5 = 1988 6 = 1987 Year of most recent foot injury. III 4 0 (1060) Integer Value 1=before 1985 5 = 1988 6 = 1989 Year of most recent foot injury. III 4 0 (1060) Integer Value 1=before 1985 5 = 1988 6 = 1989 6 = 1989 6 = 1989 6 = 1989	Q Arminj	you ever had an arm or	1		Integer	Value	Frequency
Year of most recent lower back injury. III 4 0 (1228) Integer Value 1=before 1985 3 =1986 4=1987 5=1988 6=1989 6 =1989 6 =1985 3=1986 6=1989 8 =1987 Year of most recent foot injury. III 4 0 (1060) Integer Value 1=before 1985 6=1989 8 =1986 8 =1986 8 =1986 8 =1988 8 =1986 8 =1989 9 = 1986 9 = 1989 9 = 1988 9 = 1988 9 = 1988 9 = 1988 9 = 1988 9 = 1988 9 = 1988 9 = 1988 9 = 1988 9 = 1988 9 = 1988 9 = 1988 9 = 1988 9 = 1988 9 = 1988		2=no				100	928
Year of most recent lower back injury.   III 4 0 (1228)   Integer Value   1						<b>-</b>	T/
Year of most recent lower back injury. III 4 0 (1228) Integer Value 1=0efore 1985 3 3 3 1986 6 6 6 1989 6 6 6 6 6 1989						Total	1364
1=Defore 1985 1=1986 3=1986 4=1987 5=1988 6=1989  Year of most recent leg injury. III 4 0 (1013) Integer Value 1=Defore 1985 3=1986 6=1989 6=1989 6=1989 1=Defore 1985 3=1986 6=1989 6=1989 6=1989 6=1989 6=1989	Q Yrlbkinj	lost recent lower back			Integer	Value	Frequency
2=1986 4=1987 5=1988 6=1989  Year of most recent leg injury. III 4 0 (1013) Integer Value 1=before 1985 6=1989 6=1989 6=1989 6=1985 8=1985 8=1986 8=1988 6=1989 8=1986 8=1988 8=1988 8=1988 8=1988 8=1988 8=1988 8=1988 8=1988 8=1988 8=1988 8=1988 8=1988 8=1989 8=1988		1=before 1985				<b></b> -	16
### ### ### ### ### ### ### ### ### ##		3=1986	٠			7 m	<u>,</u> α τ.
5=1988 6=1989  Vear of most recent leg injury.		4=1987				4	27
Year of most recent leg injury.   III 4 0 (1013) Integer Value   1		5=1988				S.	39
Year of most recent leg injury. III 4 0 (1013) Integer Value 1		6=1989				ω α	37
Year of most recent leg injury. III 4 0 (1013) Integer Value 1=before 1985 3=1986 4=1988 6=1989 6=1989 Year of most recent foot injury. III 4 0 (1060) Integer Value 1=before 1985 3=1986 4=1987 5=1988 6=1989 6=1989						>	1770
Year of most recent leg injury. III 4 0 (1013) Integer Value 1= before 1985 2=1985 3=1986 4=1987 5=1988 6=1989 6=1985 3=1986 8=1985 3=1986 8=1985 8=1988 6=1989 6=1989 8=1986 8=1989 8=1988 6=1989 8=1988 6=1989						Total	1364
1=before 1985 2=1985 3=1986 4=1987 5=1988 6=1989 Year of most recent foot injury. III 4 0 (1060) Integer Value 1 2 2 3 3 1986 4=1987 5=1988 6=1989 6=1989	Q YrLeginj	ost recent			Integer	Value	Frequency
Year of most recent foot injury.  Year of most recent foot injury.  1=before 1985 2=1985 3=1986 4=1987 5=1988 6=1989		1=before 1985		٠.		<b>.</b>	87
4=1987 5=1988 6=1989 6=1985 1=before 1985 2=1985 3=1986 4=1987 6=1989		Z=1985 3=1986				7 m	ი ი ი ი
5=1988 6=1989 6=1989 Year of most recent foot injury. 1=before 1985 2=1985 3=1986 4=1987 5=1988 6=1989		4=1987				4	48
6=1989  Year of most recent foot injury.  1=before 1985 2=1985 3=1986 4=1987 5=1988 6=1989		5=1988				2	71
Year of most recent foot injury.    Second Foot Injury.   III 4 0 (1060)   Integer   Value   1   2   2   3   3   4   1987   5   5   1989   6   6   6   6   6   6   6   6   6		6=1989				<b>ω</b> c	71
Year of most recent foot injury. III 4 0 (1060) Integer Value 1=before 1985 2 = 1985 3 = 1986 4 = 1987 5 = 1988 6 = 1989						> '	1 1 1 1 1 1
Year of most recent foot injury. III 4 0 (1060) Integer Value 1=before 1985 2=1985 3=1986 4=1987 4=1987 5=1988 6=1989						Total	1364
1,000 1,000	Q YrFtinj	ost recent			Integer	Value	Frequency
1 W 4 T V V O		1=Delore 1983				٦ ٥	ا ا
4.800		3=1986				1 M	200
ω φ ο , , , , , , , , , , , , , , , , , ,		4=1987				4	34
		5=1988				ر د کا	63
!		Λ×ΛΤ    φ				00	1060
						E + + + + + + + + + + + + + + + + + + +	ı

Print Date: 6/27/97 12:44 PM

Last Updated: 6/27/97 12:42 PM

Fort Bliss 89 Questionnaire 4D Filename - Bliss Quest

Field Name	Description	Quest #	Missing Values	Format	Res	Responses
Q YrArmInj	Year of most recent arm injury. 1=before 1985 2-1005	III 4	0 (1014)	Integer		Frequency 146
	2-1383 3=1986			-	7 m	22 U U U
	4=1987 5=1988				4 ແ	38
	6=1989				9	42
				,	0	10
					Total	1364
Q TypeLBInj	Type of most recent lower back injury.	TII 4	0 (1223)	Integer	Value F	Frequency
					4 (	n (
	ZESTRESS FX				ν,	.71 (
	3=Dislocation				4	ന
	4=Sprain				7	74
	5=Bursitis				∞	↔
	6=Fascitis	٠			11	m
	7=Pulled muscle				13	Н
	8=Tendonitis				19	7
	9=Shin Splints				21	20
	10=Overuse injuries				0	1223
	11=Trauma (not knee)					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	12=Overuse, Knee				Total	1364
	13=Trauma, Knee					
	18=Abrasion					
	19=Contusion, Bruise					
	20=Infection					
	21=0ther					

Fort Bliss 89 Questionnaire 4D Filename - Bliss Quest

		Quest #	Missing Values	Format	K	kesponses
Q TypeLegInj	Type of most recent leg injury.	III 4	0 (1011)	Integer	Value	
	1-FX 2=Stress HV				<b>⊣</b> ೧	90
	2-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5-5				9 (	ז יו
	J-DISIOCALIOII				n •	- 0
	4=Sprain				7	33
	5=Bursitis				7	26
	6=Fascitis				∞	(r)
	7=Pulled muscle				0	23
	8=mendoni+ie				, -	3 0
	0=remonary con 1: 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0 = 0				1 6	0 5
					77	O T
	IO=CVeruse injuries				13	91
	ll=Trauma (not knee)	,	•		18	32
	12=Overuse, Knee				19	9
	13=Trauma, Knee				20	7
<del></del>	18=Abrasion				21	49
-	19=Contustion. Bruise					101
	20=Infection				<u> </u>	1 1
	21=0ther				Total	136
Q TypFtInj	Type of most recent foot injury.	III 4	0 (1056)	Integer	Value	Frequency
			•	,	-	59
	2 Stream Px				ا د	, ч
	2-Dialogation				3 0	,
	3-DISTOCACTOIL				າ ·	/T;
	4=Sprain				4	111
	5=Bursitis				7	က
	6=Fascitis				∞	2
	7=Pulled muscle				0	m
	8=Tendonitis				10	
	9=Shin Splints				11	16
	10=Overuse injuries				13	?
	11=Traima (not knee)				7 F	• α α
	12=Oxperise Knee				0 0	9
	13=Traima, Knee				35	) <del>(-</del>
					200	10
	19=Contusion. Bruise			•	10	101
	20=Infection					
	21=0+20*				E +0E	1361

Print Date:6/27/97 12:44 PM Last

Last Updated: 6/27/97 12:42 PM

Fort Bliss 89 Questionnaire 4D Filename - Bliss Quest

Field Name	Description	Quest #	Missing Values	Format	Reg	Responses
Q TypArmInj	Type of most recent arm injury.  1=Fx 2=Stress Fx 3=Dislocation 4=Sprain 5=Bursitis 6=Fascitis 7=Pulled muscle 8=Tendonitis 9=Shin Splints 10=Overuse injuries 11=Trauma (not knee) 12=Overuse, Knee 13=Trauma, Knee 13=Trauma, Rnee 13=Trauma, Rnee 13=Trauma, Rnee 13=Trauma, Rnee 13=Contusion, Bruise 20=Infection 21=Other	III 4	0 (1000)	Integer		Frequency 194 194 21 24 24 24 25 2 2 45 1000
Q Sprain	Have you ever had an ankle sprain that restricted what you can do? 1=yes 2=no	III 5	0 (23)	Integer	Value F 1 2 0 Total	Frequency 515 826 23  1364
Q Sprain Sd1	Side of first ankle sprain. 1=right 2=1eft 3=both	III S	0 (866)	Integer	Value F 1 2 3 3 0 Total	Frequency 276 148 74 866
Q Sprain Sd2	Side of second ankle sprain. 1=right 2=left 3=both	III 5	0 (1223)	Integer	Value F 2 3 0 Total	Frequency 57 55 29 1223 

Print Date:6/27/97 12:44 PM

Fort Bliss 89 Questionnaire 4D Filename - Bliss Quest

Field Name	Description	Quest #	Missing Values	Format	Ref	Responses
Q YrSprn1	Year of first ankle sprain. 1=before 1985 2=1985 3=1986 4=1987 5=1988 6=1989	III 5	0 (867)	Integer	Value 1 2 2 4 4 6 6 0 Total	Frequency 93 44 58 82 127 127 93 867
Q YrSprn2	Year of second ankle sprain. 1=before 1985 2=1985 3=1986 4=1987 5=1988 6=1989	III 5	0 (1222)	Integer		Frequency 23 6 25 31 34 34 23 1222
Q Sprtinj	Have you ever suffered a sports or exercise related injury that caused you to miss at least one day of physical activity or work?  1-yes 2-no	9 III	0 (4)	Integer		Frequency 598 762 4  1364
Q Yrlsprt	Year of first sport/exercise injury. 1=before 1985 2=1985 3=1986 4=1987 5=1988 6=1989	III 6	0 (782)	Integer	Value 1 2 3 4 4 5 5 1 0	Frequency 90 44 72 114 150 112 782 

Last Updated: 6/27/97 12:42 PM

Print Date:6/27/97 12:44 PM

Fort Bliss 89 Questionnaire 4D Filename - Bliss Quest

Field Name	Description	Quest #	Missing Values	Format	Res	Responses
Q Yr2Spt	Year of second sport/exercise injury.	9 III	0 (1234)	Integer	Value F	Frequency
	1=before 1985 3-100F				н с	16 13
	Z=1900 3=1986				- M	7 F
	4=1987				4	30
	5=13988				വ	32
	6=1989				9	20
					0	1234
					TOT a	1364
0 TvolSprt	Type of first sports/exercise injury.	9 III	0 (799)	Integer		Frequency
)   4   1   4   1   1   1   1   1   1   1	1=Fx lower extremity			)		_ 23_
	2=Fx upper extremity				2	28
	3=Fx hand				ო	24
	4=Fx Axial Spine				4	m
	5=Other Fx				ر ک	m
	6=Torn Cartilage, Knee				9	4
	7=Sprain, trauma Lower Ext				7	262
	8=Sprain, trauma Upper Ext				8	33
	9=Pulled muscle Lower Ext				o	29
	10=Pulled muscle Upper Ext				10	19
	11=Back or neck pain				11	34
	12=Stress Fx				12	4
	13=Lacerations				13	10
	14=Contusions, bruises				14	16
	ຜ				15	വ
	16=Eye injuries				17	J.
	17=Internal Abdomen inj				18	7
	18=Internal Chest inj				21	61
	21=Other				0	799
					Total	1364

Fort Bliss 89 Questionnaire 4D Filename - Bliss Quest

Field Name	Description	Quest #	Missing Values	Format	Res	Responses
ىر	rts/exercise ir ty ty ty Knee ower Ext oper Ext in inj inj	e iii 6	0 (1228)	Integer	Value F. 2 2 2 3 4 4 4 11 12 12 14 15 16 21 16 7 7 7 7 7 7 7 11 13 14 15 16 17 17 17 17 17 17 17 17 17 17 17 17 17	Frequency 6 6 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9
Q TempInj	Have you ever suffered a heat or cold injury? 1=yes, heat 2=yes, cold 3=no	III 7	0 (15)	Integer	Value F. 2 2 3 0 1 Total	Frequency 150 44 1155 15 
Q YrlTemp	Year of first temperature injury. 1=before 1985 2=1985 3=1986 4=1987 5=1988 6=1989	III 7	0 (1187)	Integer		Frequency 47 8 19 26 37 40 1187

Print Date:6/27/97 12:44 PM

Last Updated: 6/27/97 12:42 PM

Fort Bliss 89 Questionnaire 4D Filename - Bliss Quest

Field Name	Description	Quest #	Missing Values	Format	Re	Responses
Q Yr2Temp	Year of second temperature injury. 1=before 1985 2=1985 3=1986 4=1987 5=1988 6=1989	7 111 7	0 (1331)	Integer		Frequency 11 4 5 5 1331 1331
Q TyplTemp	Type of first temperature injury.  1=Heat cramps 2=Heat exhaustion 3=Heat stroke 4=Dehydration 5=Sun poisoning 6=Minor sunburn 7=Severe sunburn 8=Other, heat 9=Frostbite/nip 11=Hypothermia 12=Other, cold	LII 7	0 (1173)	Integer	Value 77 77 77 77 77 77 77 77 77 77 77 77 77	Frequency 32 41 20 20 20 20 20 25 25 25 25 25 25 25 25 25 25 25 25 25

Fort Bliss 89 Questionnaire 4D Filename - Bliss Quest

Field Name	Description	Quest #	Missing Values	Format	Re	Responses
Q Typ2Temp	Type of second temperature injury.	LIII 7	0 (1341)	Integer	Value	Frequency
					<del></del>	7
	2=Heat exhaustion				7	2
					4	⊣
	4=Dehydration				7	⊣
	5=Sun poisoning				6	9
	e=Minor sunburn				11	7
	7=Severe sunburn				12	γ-1
	8=Other, heat				20	2
	9=Frostbite/nip				21	<b>н</b>
	10=Severe frostbite				0	1341
						1 1 1 1
	12=Other, cold				Tota1	1364
Q cold	In the past two weeks, have you had a	IV 1	(84) 0	Integer	Value	Frequency
	cold?		•		٦,	308
	] =yes				- 5	866
	2=no				o —	
					Total	1364
Q Flu	In the past two weeks, have you had a	IV 1	0 (132)	Integer	Value	Frequency
	flu?				-	26
	1=yes				7	1206
	2=no				0	132
					Total	1364
Q Fever	In the past two weeks, have you had a	IV 1	0 (130)	Integer	Value	
	tever?					67.
	1=yes				.7	1155
	2=no				0	
						1 1 1 1 1 1
					Total	1364
Q Nausea	In the past two weeks, have you had	IV 1	0 (119)	Integer	Value	Frequency
	nausea?				<del></del>	136
	1=yes				~	1109
	2=no	<del></del>			<u> </u>	119
					£ 0 + 0 E	1001
					110001	T204

Print Date:6/27/97 12:44 PM

Page: 18

Fort Bliss 89 Questionnaire 4D Filename - Bliss Quest

Field Name	Description	Quest #	Missing Values	Format	R	Responses
Q Vomit	In the past two weeks, have you had	IV 1	0 (134)	Integer	Value	Frequency
	.그					49
	1=yes				7	1181
	2=no				0	134
						1 1 1 1 1 1 1 1 1 1
					Tota1	1364
Q Diarrhea	In the past two weeks, have you had	IV 1	0 (131)	Integer	Value	Frequency
	nea?					115
	1=yes				2010	1118
	0u=7				> 	
	-				Total	1364
Q Disease	been hospital	IV 2	0 (24)	Integer	Value	Frequency
	for treatment of a serious illness or					234
	disease?				.70	1106
	1=yes				> 	
	2=no					
		·	- 1		Total	1364
Q Yrlill	Year of first serious illness.	IV 2	0 (1147)	Integer	Value	Frequency
	COAT DICTER TAGS				10	1
	Z=1985				71 (	, ע
	3=1986				. L.	T ;
	4=1987				4	T.8
	5=1988				- -	ກ ຸ
	6=1989				9	13
					<u> </u>	1147
						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
					Total	1364
Q Yr2111	Year of second serious illness.	IV 2	0 (1351)	Integer	Value	Frequency
	1=before 1985				_	77
	2=1985				. 2	с-1 ∙
	3=1986				9	←
	4=1987				0	1351
	5=1988				+ t	1364
	0=1989				110001	# O C T

Fort Bliss 89 Questionnaire 4D Filename - Bliss Quest

Field Name	Description	Quest #	Missing Values	Format	R	Responses
Q Typ1111	Type of first serious illness.	IV 2	0 (1141)	Integer	Value	Frequency
	1=Meningitis, CNS			)	-	້ (ຕ ເ
	2=Tonsillitis				100	5.5
	3=URI				· ~	- (
	4=F1u				0 4	
	5=Mononucleosis				ı LO	l m
	6=Pneumonia				9	32
	7=Bronchitis, LRI				7	4
	8=Hepatitis				6	٠,
	9=Urinary infection				11	1 2
	10=STDs				12	33
	11=GI infections				13	16
	12=Appendicitis				14	4
_	13=Other infections				15	4
	14=Asthma				16	٠,
	15=Allergic reactions				18	. 62
	16=GI conditions				20	ı <b>-</b> -
	17=Heart conditions				21	33
	18=Thermal injuries				0	1141
	19=Cold injuries					1 1 1 1
	20=Stings, bites				Total	1364
	21=Other					

Print Date:6/27/97 12:44 PM

Fort Bliss 89 Questionnaire 4D Filename - Bliss Quest

Field Name	Description	Quest #	Missing Values	Format	Resi	Responses
0 TVD2T11	Twoe of second serious illness.	IV 2	0 (1351)	Integer	Value Fr	Frequency
: : : : : : : : : : : : : : : : : : :	) ) )			)		
	2=Tonsillitis				7	2
	3=11RT				m	ı <del></del>
	4=F111				9	ıΩ
	S=Monoration and a series				7	· <del></del>
	6 Ebnemonia					- ۱
	7=Bronchi+is T.RT				12	1 (
					0	$135\overline{1}$
	9=Urinary infection		•			1 1 1 1
	10=STDs				Total	1364
	11=GI infections					
	12=Appendicitis					
	13=Other infections					
	14=Asthma					
	15=Allergic reactions			***		
	16=GI conditions					
	17=Heart conditions					
	18=Thermal injuries					
	19=Cold injuries					
	20=Stings, bites					
	21=0ther					
Q Exercise	ercise or	V 1	0 (18)	Integer	Value F1	Frequency
	for 15 minutes or more (other than					142
	running or jogging) in the last month				2	94
	prior to coming into the army?			-	m	177
	1=none				4	544
	2=less than once/week				വ	389
	3=once/week				0	18
	4=2-3 times/week				1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	5=4 or more times/week				Total	1364

Fort Bliss 89 Questionnaire 4D Filename - Bliss Quest

Field Name	Description	Quest #	Missing Values	Format	R	Responses
Q StrTrain	How many times did you do strength training for more than 15 minutes in the last month? 1=none 2=1 time/week 3=2 times/week 4=3 times/week 5=4 or more times/week	ر ا ا	0 (7)	Integer	Value 2 2 3 4 4 Total	Frequency 313 256 296 338 154 154 1364
Q FreqJog	During the past month, how often did you run or jog? 1=none 2=less than once/week 3=once/week 4=2-3 times/week 5=4 or more times/week	V 2	0 (8)	Integer	Value 1 2 3 4 4 5 Total	Frequency 221 221 221 236 431 380 108 8
Q TimeJog	When you ran or jogged, how many minutes did you actually spend running or jogging? 1=none 2=less than 10 min 3=10-20 min 4=20-30 min 5=more than 30 min	£ ^	0 (13).	Integer	Value 1 2 3 4 4 5 Total	ロフならなること
Q MinExercise	If you exercised (not running or jogging) in the last month, how many minutes did you exercise each time on the average? 1=none 2=1ess than 10 min 3=10-20 min 4=20-30 min 5=more than 30 min	۸ م	0 (10)	Integer	Value 1 2 3 4 6 1 Total	U H O H J M M D

Print Date: 6/27/97 12:44 PM Last Updated: 6/27/97 12:42 PM

Fort Bliss 89 Questionnaire 4D Filename - Bliss Quest

Field Name	Description	Quest #	Missing Values	Format	Res	Responses
Q Stretch	ar par onth? g	ا ما		Integer		Frequency 290 332 207 132 226 177 
Q TypFeet	How would you classify your feet, compared to others of your age and sex? 1=flat arches 2=high arches 3=normal	VI 1	(8)	Integer		Frequency 254 89 89 1013 8
Q DomHand	Dominant hand 1=right 2=left	VI 2	0 (4)	Integer		Frequency 1203 157 157  1364
Q Ftprob	Do you have problems with your feet that sometimes cause you to limit your daily activities? 1=yes 2=no	VI 3	(9) 0	Integer		Frequency 132 1226 6  1364
Q Typlegs	How would you classify your legs as compared to others of your age and sex. 1=knock kneed 2=bow legged 3=normal	VI 4	(6) 0	Integer	Value F 1 2 2 3 0 Total	Frequency 60 158 1137 9 1364

Fort Bliss 89 Questionnaire 4D Filename - Bliss Quest

Field Name	Description	Quest #	Missing Values	Format	Re	Responses
Q DomFoot	Dominant foot. 1=right 2=1eft	VI 5	0 (15)	Integer	Value 1 2	Frequency 1204 145
		_			0 .	15
Q BkPain	Do you have back pain that sometimes	9 IA	0 (23)	Integer	Value	Frequency
	activities?				400	1149
	1-yes 2-no				<b>)</b>	23
			•		Total	1364
Q Endurance	Compared to others of your sex, how would you rate your endurance?	VI 7A	0 (13)	Integer	Value 1	Frequency 38
	1=poor				7	184
	Z=below avg				m =	692
	4=above avg				4 Մ	8 0 V
	5=excellent				0	13
		- 1			local	1364
Q Speed	Compared to others of your sex, how would   you rate your sprint speed?	VI 7B	0 (16)	Integer	Value 1	Frequency 37
	1=poor				7	247
	2=below avg				m	689
	3=average   4=ahove average				<b>₹</b> 1.4	312
	5=excellent				0	16
					Total	1364

Print Date:6/27/97 12:44 PM

Fort Bliss 89 Questionnaire 4D Filename - Bliss Quest

Field Name	Description	Quest #	Missing Values	Format	Respons	2868
Q Strength	Compared to others of your sex, how would you rate your strength? 1=poor 2=below avg 3=average 4=above avg 5=excellent	VI 7C	0 (13)	Integer	Value Freq 1 2 3 4 4 5 0	Frequency 20 217 754 291 69 13
Q FlexRtg	Compared to others of your sex, how would you rate your flexibility? 1=poor 2=below avg 3=average 4=above avg 5=excellent	VI 7D	0 (15)	Integer		Frequency 119 276 633 240 81 15 
Q Sports	Did you participate in varsity sports in high school or college? 1=yes 2=no	VI 8	0 (26)	Integer		Frequency 812 526 26  1364
Q Letter1	Did you letter in first varsity sport? 1=yes 2=no	8 1	0 (575)	Integer		Frequency 604 185 575 
Q Letter2	Did you letter in second varsity sport? 1=yes 2=no	8 IA	0 (981)	Integer	Value Frec 1 2 0 Total	Frequency 283 100 981 1364

Fort Bliss 89 Questionnaire 4D Filename - Bliss Quest

Field Name	Description	Quest #	Missing Values	Format	Re	Responses
Q Letter3	Did you letter in third varsity sport?	8 IA	0 (1219)	Integer	Value	Frequency
	l =yes S≡no				7 2	9 6 2 1
					0	1219
					Total	1364
<b>YrLetter</b>	Year of varsity letter.	VI 8	0 (616)	Integer	Value	
	~				~	71
	2=1985				7	36
	3=1986				m ·	28
	4=1987				7	109
	5=1988				വ	164
	6=1989				90	310
					>	919
					Total	1364
0 Tvp1Sprt	Type of first varsity sport.	VI 8	0 (552)	Integer	Value	Frequency
	tball			)	-	316
	2=Track and Field				107	96
	3=Baseball				· m	65
	4=Raskethall				4	79
	5=Wrestling					79
	6=Cross Country				· ·	41
	7=Soccer				7	42
	8=Swimming				8	25
	9=Tennis				6	15
	10=01 f				10	12
	11=Vollevhall				11	7
	12=Tacrosse				12	· m
	13=Bacmethal1				13	•
	14=Rugby				15	1 67
	15=Water polo				16	ю
	16=Sking				19	9
	19=Band				20	15
	20=Other, specified				21	7
	21=Unspecified				0	552
						1 1 1 1 1
					Total	1364

Print Date:6/27/97 12:44 PM

Last Updated: 6/27/97 12:42 PM

Fort Bliss 89 Questionnaire 4D Filename - Bliss Quest

Field Name	Description	Quest #	Missing Values	Format	Re	Responses
Q Typ2Sprt	Type of second varsity sport.	8 IA	0 (630)	Integer	Value	Frequency 62
	2=Track and Field				1 (7	69
	3=Baseball				m	52
	4=Basketball				4	72
	5=Wrestling				വ	61
	6=Cross Country				Q	26
	7=Soccer				7	19
	8=Swimming				∞	12
	9=Tennis				6	4
	10=Golf				10	9
	11=Volleyball				11	7
	12=Lacrosse				12	m
-	13=Racquetball				14	7
· · · ·	14=Rugby				15	Н
	15=Water polo				. 16	7
	16=Skiing				19	-
	19=Band				20	12
	20=Other, specified				21	4
	21=Unspecified				0	930
					,	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
:					Total	1364
Q Smoke	What best describes your smoking history (before coming to the army)?	VI 9	0 (2)	Integer	Value	Frequency 895
	1=never				7	151
	2=smoked but quit				m	101
	3=less than 10 cig/day				4	152
	4=10-20 cig/day				വ	28
	5=more than 20 cig/day				<u> </u>	7
					Total	136

Fort Bliss 89 Questionnaire 4D Filename - Bliss Quest

Field Name	Description	Quest #	Quest Missing # Values	Format	Responses
Q Ethnic	What best describes your ethnic group? 1=asian 2=black 3=hispanic 4=white 5=other	VI 10 0 (8)	(8)	Integer	Value Frequency 1 25 2 336 3 132 4 838 5 25 0
					 Total 1364

Print Date:6/27/97 12:44 PM

# **FORT BLISS 1989 DATABASE**

# APPENDIX E TABLES AND HISTOGRAMS PRESENTED FOR ALL STUDY SUBJECTS

# DEMOGRAPHICS, ANTHROPOMETRICS, RISK FACTORS, AND FITNESS MEASURES

# Fort Bliss 1989 Male Recruits Table of Contents

# **Demographics:**

Age Company Race

# **Anthropometrics:**

Weight
Height
Body Mass Index
Army % Body Fat
Navy % Body Fat
Neck Size
Abdomen Size
Flexibility
Foot Length
MPJ Foot Length
Foot Width
Navicular Height
Dorsum Height

## **Risk Factors:**

Smoking Description
Hospitalization History
Surgery History
Temperature Injury History
Serious Illness/Disease History
Flu (during past two weeks)
Fever (during past two weeks)
Nausea (during past two weeks)
Vomiting (during past two weeks)

# **Fitness Measures:**

Physical Activity Level
Physical Fitness Level
Occupational Activity Level
Exercise Frequency
PT Test 1 Push Ups
PT Test 1 Sit Ups
PT Test 1 Run Time
PT Test 4 Push Ups
PT Test 4 Push Ups
PT Test 4 Run Time
% Change for Push Ups
% Change for Sit Ups
% Change for Run Time

# FB '89 Subject Info By Unit

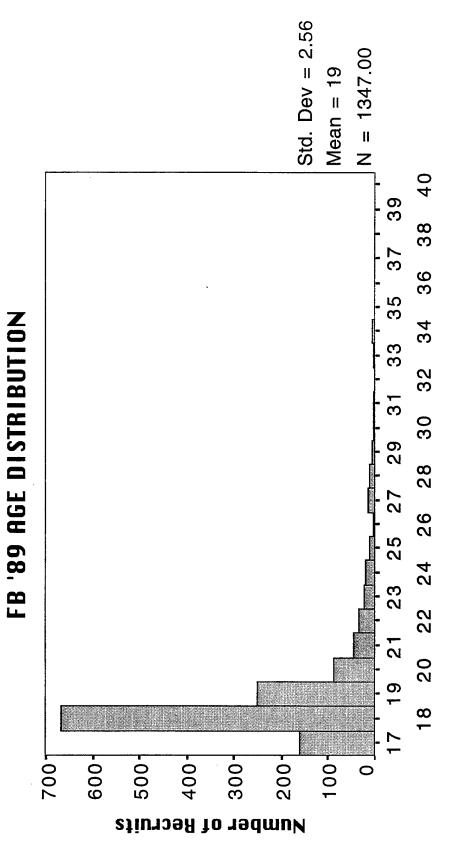
TOTAL	1357	0	0	0	41	0	26	7	10	1441
E3 .	214						9	1	ļ	222
E	221						1	1		223
DSC					1				:	+
D3B7					5					2
D3B					5			:		5
D3	202						10	:	-	213
D1C D1C8					9					9
D1C					4					4
D1BW					1					Į.
D1B	260						1		1	262
D1A	214						2	1	5	222
C1B C1B9					3					3
C1B					16					16
CJ	246						9	4	2	258
	1 (Subject)	2 (Pro Unit)	3 (Recycled)	4 (Discharged)	5 (Anth Only, Pro)	6 (Quest Only, Pro)	7 (Anth Only)	8 (Quest Only)	9 (Non-Subject)	TOTAL

Note: All graphs and tables to follow will use only recruits with a Subject Info Code of 1

Age of MALE recruits:

AGE\_2

11.8 61.3 80.0 860.0 992.9 905.5 909.3 100.0 Percent 18.000 23.000 100.0 Percent Missing Valid Mode Range Percent 10 18.000 6.537 40.000 Frequency 1357 1159 6674 2511 888 333 220 10 11 Missing cases Missing cases 17.00 18.00 20.00 21.00 22.00 24.00 26.00 26.00 27.00 28.00 31.00 33.00 40.00 Value Variance Total Maximum Median 19.046 2.557 17.000 1347 1347 Statistics for AGE: Valid cases Valid cases Value Label Missing Std dev Minimum Mean 17 118 220 220 221 221 222 233 330 40



Age of Recruits in Years

FB Charts: FB Age 11/1/96

27 Dec 96 SPSS 6.1 for the Power Macintosh

Company Distribution for MALE recruits

COMPANY

Value Label		Value	Frequency	Percent	Valid Percent	Cum Percent	
C1 D1 <b>A</b> D1 <b>B</b> D3 E1 E3		C1 D1A D1B D3 E1 E3	246 214 260 202 221 221 	18.1 15.8 14.9 16.3 15.8	18.1 15.8 14.9 16.3 15.8	18.1 33.9 53.1 67.9 84.2 100.0	
Valid cases	1357	Missing cases					

Щ FB '89 COMPANY DISTRIBUTION 221 Ш 202 **D**3 Company D1B 260  $\Omega$ 100-3007 200-Number of Recruits

FB Charts: FB Company

27 Dec 96 SPSS 6.1 for the Power Macintosh

O\_ETHNIC Ethnic Distribution of MALE recruits:

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent	
ASIAN	1.00	25	1.8	1.9	1.9	
BLACK	2.00	335	24.7	24.9	26.7	
HISPANIC	3.00	132	9.7	8.6	36.5	
WHITE	4.00	831	61.2	61.6	98.1	
OTHER	5.00	25	1.8	1.9	100.0	
UNKNOWN	00.	6	7.	Missing		
		1 1				
	Total	1357	100.0	100.0		

Valid cases 1348 Missing cases

Q

Actual Question Asked: What best describes your ethnic group?

Other FB '89 ETHNIC GROUP DISTRIBUTION White 831 Hispanic 132 Black 335 Asian 800--002 500-400-300-200-100 9001 009 Number of Recruits

**Ethnic Group** 

1/9/97

FB Charts: FB Ethnic

02 Jan 97 SPSS 6.1 for the Power Macintosh

Weight of MALE recruits

AN\_WT (kg)

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
45-49.99	45.00	Н		Ε.	₽.
50-54.99	50.00	13	1.0	1.0	1.0
55-59.99	55.00	78	5.7	5.8	6.8
60-64.99	60.00	175	12.9	12.9	19.7
65-69.99	65.00	210	15.5	15.5	35.2
70-74.99	70.00	235	17.3	17.3	52.5
75-79.99	75.00	208	15.3	15.3	67.8
80-84.99	80.00	155	11.4	11.4	79.3
85-89.99	85.00	105	7.7	7.7	87.0
90-94.99	90.00	89	5.0	5.0	92.0
95-99.99	95.00	26	4.1	4.1	96.2
100-104.99	100.00	29	2.1	2.1	98.3
105-109.99	105.00	16	1.2	1.2	99.5
110-114.99	110.00	S	4.	4.	66.66
115-119.99	115.00	7	ન.	۲.	100.0
Missing	•	н	~:	Missing	
	Total	1357	100.0	100.0	

Statistics for AN\_WT (kg):

Missing cases

1356

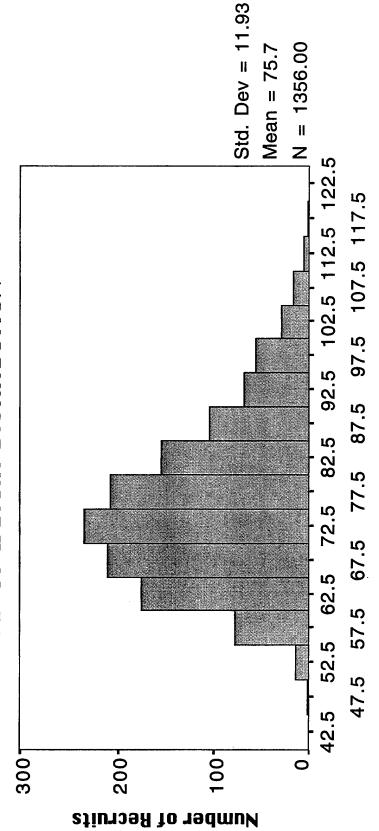
Valid cases

69.200 66.600 Mode Range 74.100 142.338 116.400 Variance Maximum Median 75.718 11.931 49.800 Mean Std dev Minimum

Valid cases 1356 Missing cases

<sup>\*</sup> Multiple modes exist. The smallest value is shown.





## Weight of Recruits in 5 kg groups

FB Charts: FB Weight 12/31/96

Weight Categories: 40-44.99, 45-49.99, 50-54.99, ..., 120-124.99

	1.	т.	4.	0 1.	'n	3 7.	11.	.6 19.5	28.	38.	51.	63.	72.	.3 81.8	88.	93.	97.	98.	.66	2 99.5	.66	.66	. 66	1 100.0	gu-	!	0.	
Percent				$\leftarrow$	7	m	4	7	6	10	12	12	6	0	Ó	4	4	H	-	-			·		Missing		100	
Percent	Η.	۲.	m.	1.0	2.4	3.3	4.6	7.6	9.4	0	12.2	2	9.2	9.3	6.8	4.5	4.1	1.4	.7	.2	۲.		۲.	۲.	т.	1 1 1 1 1 1 1 1 1	100.0	
Frequency	Н	⊣	4	14	33	45	63	103	127	137	166	164	125	126	92	61	52	19	10	က	Н	m	2	ęН	⊣	1 1 1	1357	2000
Value	152.00	154.00	158.00	160.00	162.00	164.00	166.00	168.00	170.00	172.00	174.00	176.00	178.00	180.00	182.00	184.00	186.00	188.00	190.00	192.00	194.00	196.00	198.00	200.00	00.		Total	Minning Surious M
																												1256
Value Label	152-153.99	9.55	9.69	51.9	33.9	55.9	57.9	9.69	71.9	3.9	75.9	77.9	9.6	31.9	33.9	35.9	37.9	9.08	1.9	192-193.99	5.9	97.9	9.6	1.9	Missing			Valid cases

Valid cases 1356 Missing cases

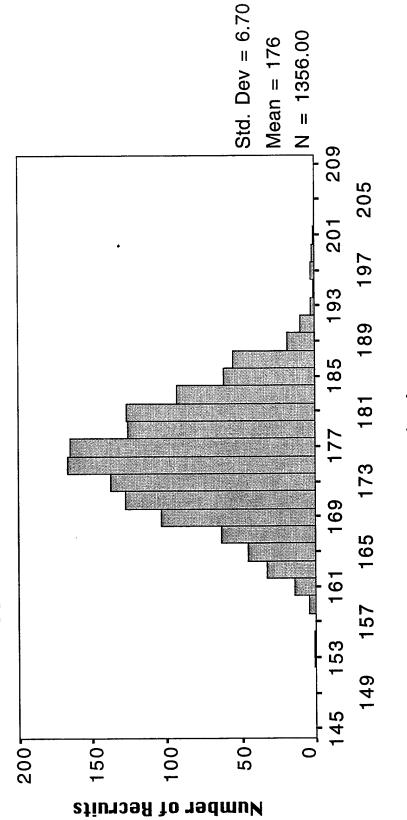
Statistics for AN\_HT (cm):

175.500 46.600
Mode Range
175.700 44.879 200.200
Median Variance Maximum
175.803 6.699 153.600
Mean Std dev Minimum

Valid cases 1356

Missing cases





Height (cm)

FB Charts: FB Height 12/31/96

Height Categories: 144-145.99, 146-147.99, 148-149.99, ..., 208-209.99

SPSS 6.1 for the Power Macintosh 27 Dec 96

BMI of MALE recruits:

BMI\_2

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent	
17-17.99	16.00	н <		٠ <u>.</u> ر	٠. د	
-18,99	18.00	21	. H	ָר. היר	, L	
-19.99	19.00	62	4.6	4.6	, r.	
20-20.99	20.00	119	8	8	15.3	
21-21.99	21.00	140	10.3	10.3	25.6	
-22.99	22.00	178	13.1	13.1	38.7	
-23.99	23.00	169	12.5	12.5	51.2	
-24.99	24.00	145	10.7	10.7	61.9	
-25.99	25.00	118	8.7	8.7	70.6	
-26.99	26.00	87	6.4	6.4	77.0	
-27.99	27.00	80	5.9	5,9	82.9	
-28.99	28.00	62	4.6	4.6	87.5	
-29.99	29.00	26	4.1	4.1	91.6	
-30.99	30.00	42	3.1	3.1	94.7	
-31.99	31.00	40	2.9	2.9	97.6	
-32.99	32.00	25	1.8	1.8	99.5	
33-33.99	33.00	ហ	4	7	6.66	
-34.99	34.00	н	Η.	는.	99.9	
37-37.99	37.00	T		; 	100.0	Data
Missing	00.	H	τ.	Missing		<b>)</b>
			1 1 1 1 1 1 1	1 1 1 1 1 1 1		

Doto boles this 1200	not shown on graph		
	100.0		
	.1 Missing	100.0	
	न्न	100.0	
	ਜਜ	1357	ᆏ
	37.00	Total	Missing cases
			1356
	.99 ng		cases

Statistics for AN\_BMI:

Valid

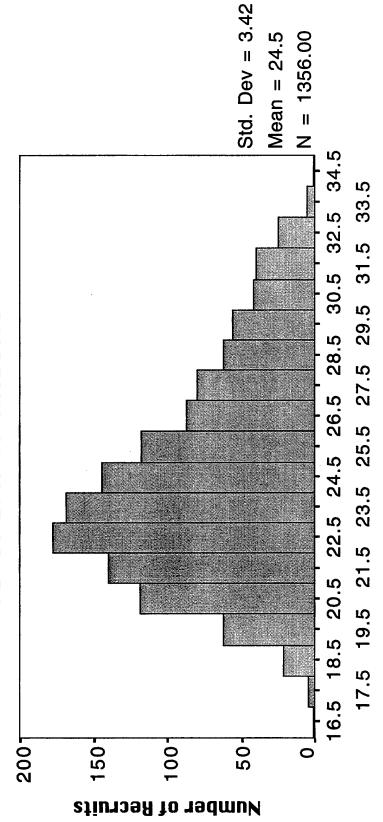
21.231	20.977	
Mode	Range	)
23.900	11.675	37 617
Median	Variance	Maximi
24.472	3.417	16.640
Mean	Std dev	Minimum

<sup>\*</sup> Multiple modes exist. The smallest value is shown.

Missing cases 1356 Valid cases

formula: AN BMI:=An Wt/(An Ht/100) $^2$ 





# Body Mass Index for Recruits (kg/m^2)

FB Charts: FB An BMI 12/31/96

BMI Categories: 16-16.99, 17-17.99, 18-18.99, ..., 34-34.99

27 Dec 96 SPSS 6.1 for the Power Macintosh

Army Calculation of Percent Body Fat of MALE recruits

ARMYBF\_2

2.7 2.7 3.6 8.2 8.2 11.8 2.3 12.3 24.1 14.8 38.9 3.0 13.1 52.0 12.5 12.5 64.5 8.4 72.9 7.7 7.7 80.7 7.2 7.2 87.9 5.4 93.3 3.7 3.7 97.0 2.1 2.1 99.0 Missing
Missing Missing 100.0
14.8 13.1 12.5 8.4 7.7 7.2 3.7 2.1 8 Missing
12.5 8.4 7.7 7.2 7.2 3.7 2.1 2.1 .8 .8 .1
7.7 7.2 7.2 3.4 3.7 2.1 .8 .8 .1 .1 .1
5.4 3.7 3.7 2.1 2.1 Missing 100.0
3.7 2.1 .8 .1 Missing
2.1 .8 .1 Missing
.: Missing 
Missing - 100.0
ı

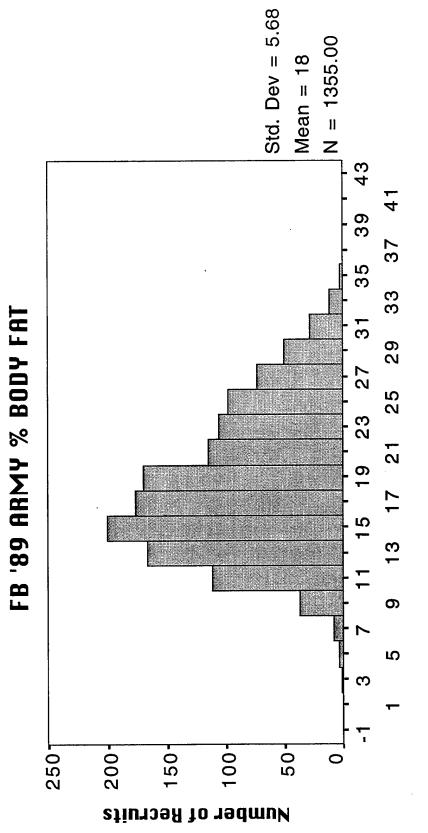
Statistics for AN\_AR\_BF:

formula: if (AN ABD2 M>0, (46.892-(68.687\*(Log(AN HT))\*0.4342944)+ (76.462\*(Log(AN ABD AVG M-AN NEK AVG M)\*0.43429448))),0)

Missing cases

1355

Valid cases



**Army % Body Fat** 

FB Charts:FB Army % BF 12/31/96

Army % BF categories: (-2)-(-0.01), 0-1.99, 2-3.99, ..., 42-43.99

SPSS 6.1 for the Power Macintosh 27 Dec 96

Navy Calculation of Percent Body Fat of MALE recruits

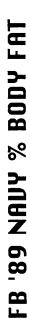
NAVYBF\_2

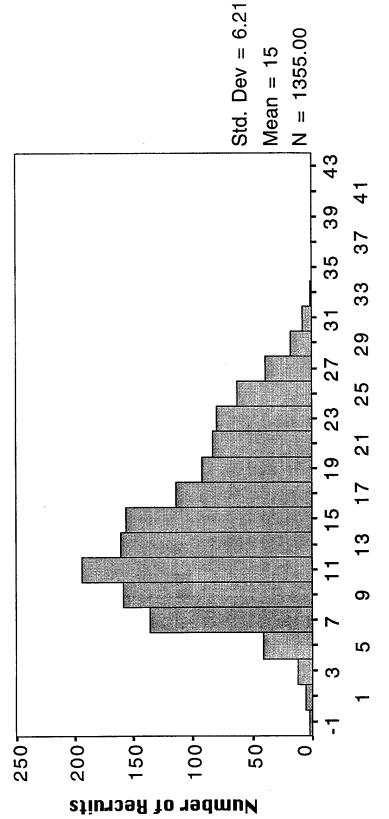
Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent	
-2-(01)	-2.00	2	-	~	+	
0-1.99	00.	9	7.	4.	9.	
2-3,99	2,00	12	ું	6	1.5	
4-5.99	4.00	41	3.0	3.0	4.5	
6-7.99	6.00	135	9.9	10.0	14.5	
8-9,99	8.00	158	11.6	11.7	26.1	
10-11.99	10.00	193	14.2	14.2	40.4	
12-13.99	12.00	160	11.8	11.8	52.2	
14-15.99	14.00	155	11.4	11.4	63.6	
	16.00	113	8.3	8.3	72.0	
18-19.99	18.00	91	6.7	6.7	78.7	
20-21.99	20.00	82	6.0	6.1	84.7	
22-23.99	22.00	79	5.8	5.8	90.6	
24-25.99	24.00	62	4.6	4.6	95.1	
26-27.99	26.00	39	2.9	2.9	98.0	
28-29.99	28.00	18	1.3	1.3	99.3	
30-31.99	30.00	∞	9.	9.	6.66	
32-33.99	32.00	ᆏ	۲.	۲.	100.0	
Missing	00.666	7	다.	Missing		
	Total	1357	100.0	100.0		
Valid cases 1355	Missing	cases 2				
Statistics for AN_NV_BF	NV_BF:					

•	9.610	33,135	
•	Mode	Range	
•	13.570	38.621	32.033
•	Median	Variance	Maximum
:	14.543	6.215	-1.102
	Mean	Std dev	Minimum

The smallest value is shown. \* Multiple modes exist.

Missing cases 1355 Valid cases





### Navy Calculation of % Body Fat

FB Charts:FB Navy % BF 1/9/97

Navy % BF categories: (-2)-(-0.01), 0-1.99, 2-3.99, ..., 42-43.99

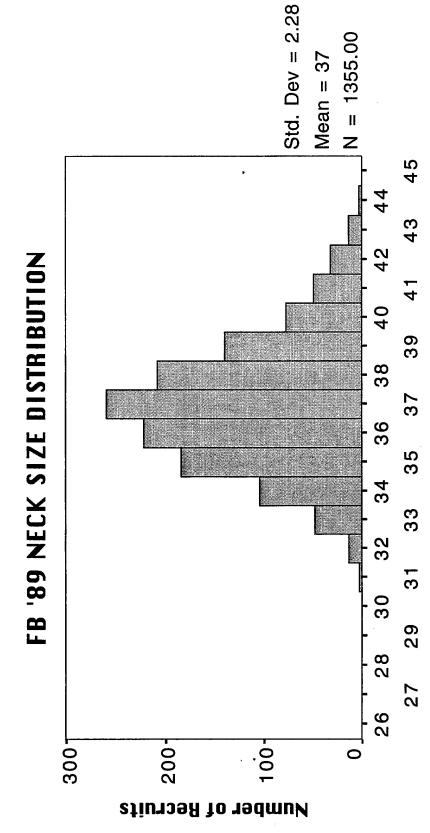
27 Dec 96 SPSS 6.1 for the Power Macintosh

Neck Size Distribution among MALE recruits:

AN\_NEK (cm)

	ı	-	Data above this line														Data below this line				,							
Cum	Percent	다.	2		4.7	12.4	26.0	42.3	61.3	76.7	87.0	92.7	96.3	98.7	9.66	99.8	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	99.9	6.66	100.0	; !				37,000	23.160		
Valid	Percent	.1						16.3	•				3.6					ન.	₩.	-	Missing	100.0						
	Percent	ਜ.	1 1 1 1 1 1 1	1,0	3.5	7.7	13.5	16.3	19.0	15.3	10.3	5.7	3.6		•	۲.		τ:	Ε.	Η.		100.0			Mode	Range		
	Frequency		2	13	48	104	184	221	258	208	140	77	49	32	13	. 73		⊣	<del>, ,</del>	-		1357	cases 2		37,300	5.198	0	sses 2
	Value	24.00	31.00	32,00	33.00	34.00	35.00	36.00	37.00	38.00	39.00	40.00	41.00	42.00	43.00	44.00		46.00	47.00	48.00	00.	Total	Missing ca	(cm):	Median	Variance		Missing cases
																							1355	for AN_NEK		2.280	•	1355
	Value Label	24-24.99	-31.9	-32.9	-33.9	-34.9	-35.9	36-36.99	-37.9	-38.9	-39.9	-40.9	-41.9	-42.9	-43.9	-44.9		w	$\boldsymbol{\sigma}$	-48.9	Missing		Valid cases	Statistics fo	Mean	Std dev Minimum		Valid cases

Note: AN\_NEK is an average of three neck measurements



Neck Measurement (cm)

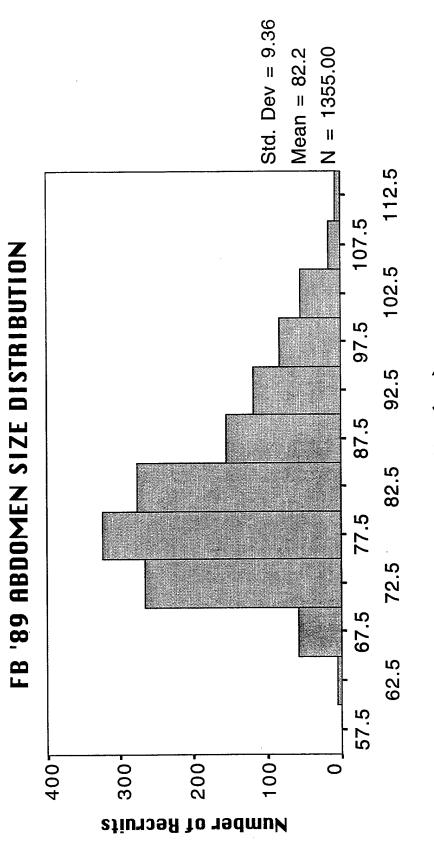
FB Charts: FB Neck 1/10/97

Neck Size Categories: 26-26.99, 27-27.99, 28-28.99, ..., 45-45.99

27 Dec 96 SPSS 6.1 for the Power Macintosh

AN_ABD (cm)	Abdomen	Abdomen Size Distribution among MALE recruits:	bution amon	g MALE re	cruits:		
Value Label		Value	Frequency	Percent	Valid Percent	Cum Percent	
60-64.99		60.00	ιΩ	4.	4.	₽.	
65-69.99		65.00	57	4.2	4.2	4.6	
70-74.99		70.00	264	19.4	19.5	24.1	
75-79.99		75.00	323	23.8	23.8	47.9	
80-84.99		80.00	276	20.3	20.4	68.3	
85-89.99		85.00	155	11.4	11.4	7.67	
90-94.99		90.00	117	8.6	8.6	88.3	
95-99.99		95.00	81	0.9	6.0	94.3	
100-104.99		100.00	54	4.0	4.0	98.3	
105-109.99		105.00	16	1.2	1.2	99.5	
110-114.99		110.00	7	5	ī.	100.0	
Missing		00.	7	е.	Missing		
		Total	1357	100.0	100.0		
Valid cases	1355	Missing c	cases 2				
Statistics for AN_ABD (cm):	or AN_ABD	(cm):					
Mean	82.197	Median	80.400	Mode		82.430	
Minimum	62.370	variance Maximum	8/.640 113.230	kange		20.800	
Valid cases	1355	Missing cases	ases 2				

Note: AN\_ABD is an average of three abdominal measurements



Abdomen Size (cm)

FB Charts: FB Abd 12/31/96

Abdomen Size Categories: 55-59.99, 60-64.99, 65-69.99, ..., 110-114.99

30 Dec 96 SPSS 6.1 for the Power Macintosh

FLEX\_2 Flexibility of MALE recruits

Value Label		Value	Frequency	Percent	Valid Percent	Cum Percent	
0-1.99		00.	c	. 2	.2	.5	
-7.		00.9	2		1.	4.	Data above this line not shown on graph
6.6-		8.00	ហ	4.	4.	7	
0-11.9		10.00	6	.7	.7	1.4	
13.9		12.00	15	1.1	1.1	2.5	
4 - 15.9		14.00	17	1.3	1.3	κ	
16-17.99		16.00	27	2.0	2.0	5.7	
8 - 19.9		18.00	99	4.9	4.9	10.6	
0-21.9		20.00	72	5.3	5.3	15.9	
2-23.9		22.00	69	5.1	5.1	21.0	
4-25.9		24.00	114	8.4	8.4	29.4	
6-27.9		26.00	104	7.7	7.7	37.1	
8-29.9		28.00	137	10.1	10.1	47.2	
0 - 31.9		30.00	137	10.1	10.1	57.3	
2-33.9		32.00	123	9.1	9.1	66.3	
4-35.9		34.00	113	8.3	8.3	74.6	
6-37.9		36.00	122	0.6	0.6	83.6	
8-39.9		38.00	93	6.8	6.9	90.5	
0 - 41.9		40.00	58	4.3	4.3	94.8	
2-43.9		42.00	36	2.7	2.7	97.4	
4-45.9		44.00	21	1.5	1.5	0.66	
-47.9		46.00	ഗ	.7	.7	9.66	
-49.9		48.00	വ	7.	4	100.0	
Missing		•	7	τ.	Missing		
		Total	1358	100.0	100.0		
Valid cases	1357	Missing cases	ises 1				

Missing cases

1357

Valid cases

32.000 49.200

Mode Range

30.500 60.440 49.200

Median Variance Maximum

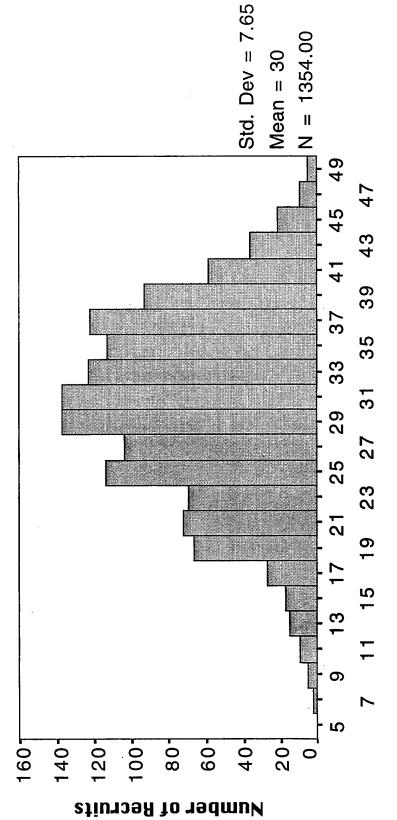
30.099 7.774 .000

Mean Std dev Minimum

Statistics for AN\_FLEX:

<sup>\*</sup>Note: AN\_FLEX is an average of three measurements





Flexibility (cm)

FB Charts: FB Flex 12/31/96

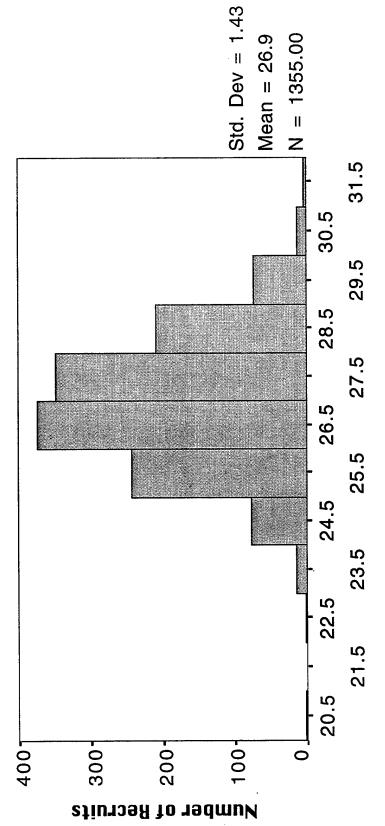
Flexibility Categories: 4-5.99, 6-7.99, 8-9.99, ..., 48-49.99

30 Dec 96 SPSS 6.1 for the Power Macintosh

recruits
MALE
of
Length
Foot
(CIII)
TT
Ä

Value Label		Value	Frequency	Percent	Valid Percent	Cum Percent	
10-10.99		10.00	н		₽.	Η.	
20-20.99		20.00	2		1		Data above this line
22-22.99		22.00		ļ <del></del>		?	TIMOTIE
23-23.99		23.00	15	- <del>-</del>	i	, , , ,	
24-24.99		24.00	76		i ru		
25-25.99		25.00	242	17.8	17.9	24.9	
26-26.99		26.00	373	27.5	27.5	52.5	
27-27.99		27.00	348	25.6	25.7	78.2	
28-28.99		28.00	209	15.4	15.4	93.6	
29-29.99		29.00	72	5.3	י י י	0 0	
30-30.99		30.00	12	o	σ	α ο σ	
31-31.99		31.00	m	. 0	, 0	0.001	
Missing		•	m		Missing	• • •	
		Total	1358	100.0	100.0		
Valid cases	1355	Missing cases	ses 3				
Statistics for AN	FT_L	(cm):					
Mean Std dev	26.857 1.430	Median Variance	26.900	Mode		27.000	
Minimum	10.800	Maximum	31.400		-		
Valid cases	1355	Missing cases	898				





Foot Length (cm)

FB Charts: FB Foot Length 1/9/97

Foot Length Categories: 20-20.99, 21-21.99, 22-22.99, ..., 31-31.99

30 Dec 96 SPSS 6.1 for the Power Macintosh

MPJ Foot Length of MALE recruits

MPJ\_FL2 (cm)

1
14 1.0 1.0 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2 1.2
14 1.0 1.0 1.2 132 9.7 9.7 10.9 235 17.3 17.3 28.3 457 33.7 33.7 62.0 336 24.7 24.8 86.8 154 11.3 11.4 98.2 23 1.7 1.7 99.9 1 .1 .1 .1 100.0 not 3 .2 Missing
132 9.7 9.7 10.9 235 17.3 17.3 28.3 457 33.7 33.7 62.0 336 24.7 24.8 86.8 154 11.3 11.4 98.2 23 1.7 1.7 99.9 1 .1 .1 .1 100.0 not 1358 100.0 100.0
235 17.3 17.3 28.3 457 33.7 33.7 62.0 336 24.7 24.8 86.8 154 11.3 11.4 98.2 23 1.7 1.7 99.9 1 .1 .1 .1 100.0 not 3 .2 Missing
457 33.7 33.7 62.0 336 24.7 24.8 86.8 154 11.3 11.4 98.2 23 1.7 1.7 99.9 1 .1 .1 .1 99.9 1 .1 .1 .1 not not 3 .2 Missing
336 24.7 24.8 86.8 154 11.3 11.4 98.2 23 1.7 1.7 99.9 1 .1 .1 .1 99.9 1 .1 .1 .1 100.0 not 3 .2 Missing 1.358 100.0 100.0
154 11.3 11.4 98.2 23 1.7 1.7 99.9 1 .1 .1 99.9 1 .1 .1 100.0 not 1358 100.0 100.0
23 1.7 1.7 99.9 1 .1 .1 99.9 1 .1 .1 100.0 not 3 .2 Missing 1358 100.0 100.0
1 .1 .99.9 1 .1 .1 .1 100.0 not 3 .2 Missing
1 .1 .1 .1 .100.0 not 3 .2 Missing
1358 100.0 3
cases 3

19.600 15.300

Mode Range

19.600 1.476 26.000

Median Variance Maximum

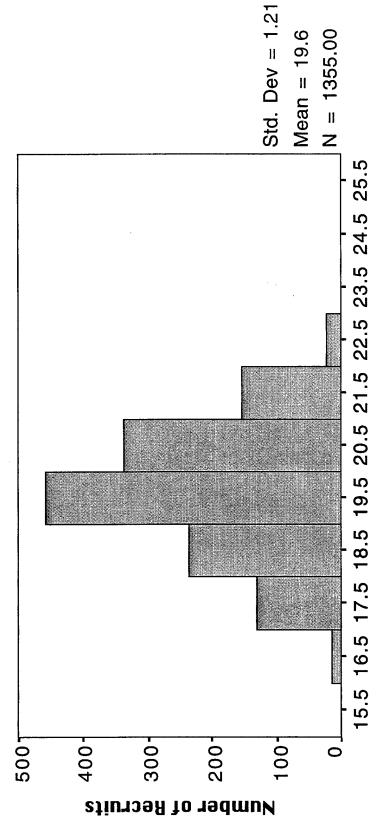
19.564 1.215 10.700

Mean Std dev Minimum Missing cases

1355

Valid cases

# FB '89 MPJ FOOT LENGTH DISTRIBUTION



### MPJ Foot Length (cm)

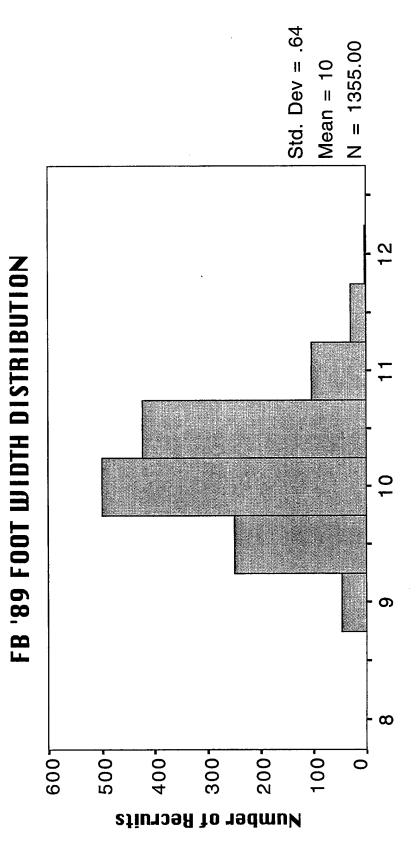
FB Charts: FB MPJ FL 12/30/96

MPJ Foot Length Categories: 10-10.99, 11-11.99, 12-12.99, ..., 25-25.99

30 Dec 96 SPSS 6.1 for the Power Macintosh

lidth of MALE recruits
<b>'</b>
i) Foot
) C
FW_WD
AN

Value Label		Value	Frequency Percent	Percent	Valid Perceht	Cum Percent		
5.5-5.99		5.50	н	₽.	۲.	<b>.</b>		Ţ
8.5-8.99		8.50				1.	Data above this line not shown on graph	this line on graph
9.0-9.49		9.00	46	3.4	3.4	3.5		
9.5-9.99		9.50	249	18.3	18.4	21.9		
10.0-10.49		10.00	498	36.7	36.8	58.7		
10.5-10.99		10.50	422	31.1	31.1	89.8		
11.0-11.49		11.00	104	7.7	7.7	97.5		
11.5-11.99		11.50	29	2.1	2.1	99.6		
12.0-12.49		12.00	m	.2		6.66		
19.5-19.99		19.50				0 00	Data below this line	line
20.5-20.99		20.50	l <del>( -  </del>	l <del></del>	! -	1001		ייקשיו
Missing		•	ıκ	. 7	Missing	•		
			1 1 1 1 1	1 1 1 1 1	1 1 1 1			
		Total	1358	100.0	100.0			
Valid cases	1355	Missing cases	ises 3					
Statistics f	Statistics for AN_FT_WD	(cm):						
Mean	10.349	Median	10.300	Mode		10.500		
Sta dev Minimum	.641 5.500	Variance Maximum	.410 20.500	Rang		15.000		
Valid cases	1355	Missing cases	ises 3					



Foot Width (cm)

FB Charts: FB Foot Width 12/30/96

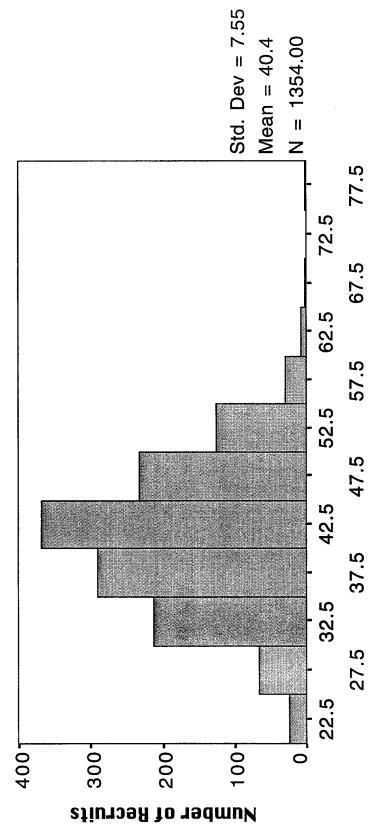
Foot Width Categories: 8-8.49, 8.5-8.99, 9-9.49, ..., 12.5-12.99

30 Dec 96 SPSS 6.1 for the Power Macintosh

AN\_NAVHT (cm) Navicular Height Distribution for MALE recruits

Cum Percent	1.8 6.6 6.6 43.7 70.8 88.0 99.3 100.0	000
Cum Perce	1.00.00.00.00.00.00.00.00.00.00.00.00.00	40.000
Valid Percent	1.8 15.7 21.4 27.1 17.1 9.2 2.1 2.1   Missing	o)
Percent	1.8 15.6 27.0 27.0 17.1 9.1 2.1 10.0	Mode Range
Frequency	24 66 212 290 367 232 124 7 7 7 1358	40.000 57.066 77.000
Value	20.00 35.00 35.00 45.00 55.00 65.00 75.00	Missing cases (mm): Median Variance Maximum
		1354 or AN_NAVHT 40.373 7.554 20.000
Value Label	20-24.99 25-29.99 30-34.99 35-39.99 40-44.99 45-49.99 50-54.99 65-69.99 Missing	Valid cases 1354 Statistics for AN_NAVHT Mean 40.373 Std dev 7.554 Minimum 20.000

FB '89 NAUICULAR HEIGHT DISTRIBUTION



### Navicular Height (mm)

FB Charts: FB Nav Ht 12/30/96

Nav Ht Categories: 20-24.99, 25-29.99, 30-34.99, ..., 75-79.99

30 Dec 96 SPSS 6.1 for the Power Macintosh

	Cum	Percent
ecruits	Valid	Percent
or MALE r		Percent
Dorsum Height Distribution for MALE recruits		Value Frequency Percent Percent Percent
Height Dis		Value
Dorsum		
(man)		e]
AN_DR_HT (mm)		Value Label

Cum Percent	다.	7.	3.4	11.2	26.3	49.9	77.4	93.7	98.7	99.9	100.0				
Valid Percent	τ.	.7	2.7	7.8	15.1	23.6	27.5	16.3	4.9	1.3	۲.	Missing	1 (	100.0	
Percent	<del>다</del>	.7	2.7	7.8	15.0	23.6	27.5	16.3	4.9	1.3	۲.	.5	0	100.0	
Frequency	н	6	36	106	204	320	373	221	29	17	⊣	ж	1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1 (1	1358	sses 3
Value	30.00	40.00	45.00	50.00	55.00	00.09	65.00	70.00	75.00	80.00	95.00	•		Total	Missing cases
															1355
Value Label	30-34.99	40-44.99	45-49.99	50-54.99	55-59.99	60-64.99	65-69.99	70-74.99	75-79.99	80-84.99	95-99.99	Missing			Valid cases

Statistics for AN\_DR\_HT (mm):

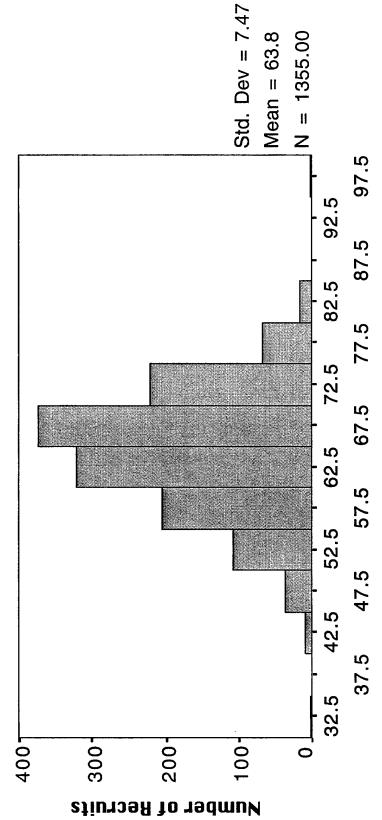
67.000	
Mode Range	
65.000 55.821 98.000	
Median Variance Maximum	
63.827 7.471 30.000	
Mean Std dev Minimum	

Missing cases

1355

Valid cases





#### Dorsum Height (mm)

FB Charts: FB Dorsum HT 12/38/96

Dorsum Height Categories: 30-34.99, 35-39.99, 40-44.99, ..., 95-99.99

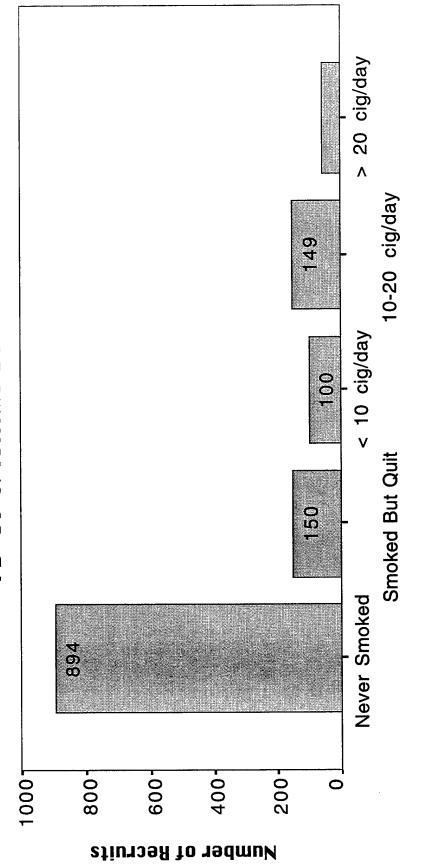
30 Dec 96 SPSS 6.1 for the Power Macintosh

Q\_SMOKE Number of cigarettes smoked per day(MALES)

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent
Never Smoked	1.00	894	65.8	66.3	66.3
<pre>clioned but guit &lt; 10 cig/day</pre>	3.00	100	7.4	7.4	84.8
10-20 cig/day	4.00	149	11.0	11.0	95.8
> 20 cig/day	5.00	26	4.1	4.2	100.0
Unknown	00.	ω	۰.	Missing	
	Total	1357	100.0	100.0	
Valid cases 1349	Missing cases	ases 8			

Note: Actual Question Asked: Which of the following BEST describes your smoking history (before entering the Army)?

FB '89 SMOKING DISTRIBUTION



**Smoking Description** 

FB Charts: FB Smoke

1/9/97

30 Dec 96 SPSS 6.1 for the Power Macintosh

spitalized
it been Ho
Had recrui
C HOSP

Value Label		Value	Frequency	Percent	Valid Percent	Cum Percent	
YES		1.00	218	16.1	16.1 16.2 82.8 83.8	16.2	
UNKNOWN		00.	15	1.1	Missing	) ) )	
		Total	.1357	100.0	100.0		
Valid cases	1342	Missing cases	ases 15				

Actual question asked: Have you ever had an accident or injury that caused you to be in the hospital overnight?

FB '89 HISTORY OF HOSPITALIZATION DISTRIBUTION 9 218 218 XES 1000-800--009 400-200-12007 0 Number of Recruits

**Recruit Had History of Hospitalization** 

FB Charts: FB Hosp 1/9/97

30 Dec 96 SPSS 6.1 for the Power Macintosh

O_SURGER	Has recruit	c ever had a	n injury or	accident	that req	Has recruit ever had an injury or accident that required surgery?	
Value Label		Value l	Frequency	Percent	Valid Percent	Cum Percent	
YES NO UNKNOWN		1.00 2.00 .00	298 1050 9	21.9	22.1 77.9 Missing	22.1 100.0	
		Total	1357	100.0	100.0		
Valid cases	1348	Missing cases	ases 9				

FB '89 SURGERY DISTRIBUTION 1050 9 298 XES 1000-800--009 400-200-0 1200-Number of Recruits

Recruit Had History of Surgery

1/9/97

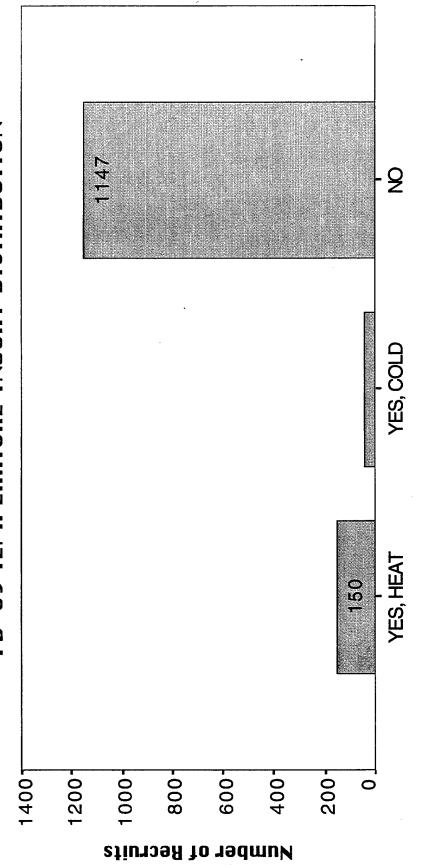
FB Charts: FB Surgery

30 Dec 96 SPSS 6.1 for the Power Macintosh

O\_TEMPIN Had recruit ever suffered a heat or cold injury?

Value Label		Value	Frequency	Percent	Valid Perceht	Cum Percent
YES, HEAT		1.00	150	11.0	11.2	11.2
YES, COLD		2.00	44	3.2	3.3	
NO		3.00	1147	84.5	85.5	•
UNKNOWN		00.	16	1.2	Missing	
			! ! ! ! !	1		
		Total	1357	100.0	100.0	
Valid cases	1341	Missing cases	ases 16			

FB '89 TEMPERATURE INJURY DISTRIBUTION



**Recruit Suffered a Temperature Injury in Past** 

FB Charts: FB Tempinj

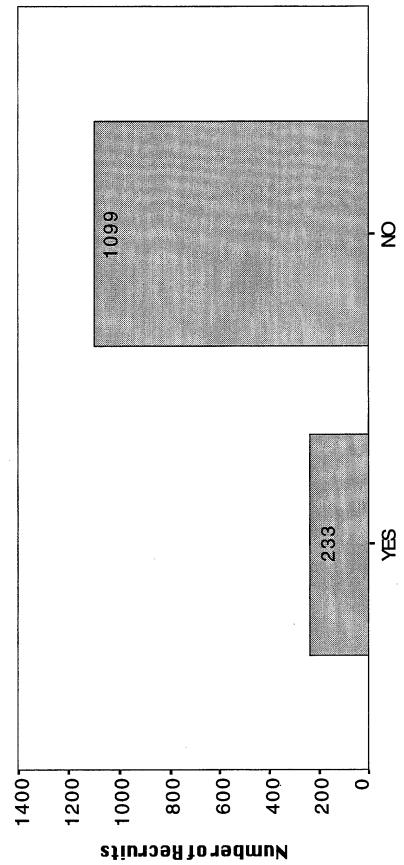
1/9/97

30 Dec 96 SPSS 6.1 for the Power Macintosh

nt	
it for the treatment	
the	
for	
overnigh	
Has recruit ever been hospitalized	ss or disease?
been	ess c
ever	; illr
recruit	of a serious illness or
Has	of
DISEAS	

Value Label		Value	Frequency	Percent	Valid Percent		
YES NO UNKNOWN		2.00	233 1099 25	17.2 80.9 1.8	17.5 82.5 Missing	17.5 100.0	
Valid cases	1332	Tocal Missing cases	135 <i>/</i> ases 25	T.00.	T00.0		

FB '89 HISTORY OF DISEASE DISTRIBUTION



**Ever Been Hospitalized for Serious Illness or Disease** 

FB Charts: FB Disease 1/9/97

30 Dec 96 SPSS 6.1 for the Power Macintosh

Ω	recruit had flu in past two weeks?	Value Frequency Percent Percent	25 1.8 2.0	1199 88.3	.00 133 9.8 Missing	0 00 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Has Del	recruit had					
O_FLU Value Lak YES NO UNKNOWN	Has	Value Label	ro		KINOMIN	

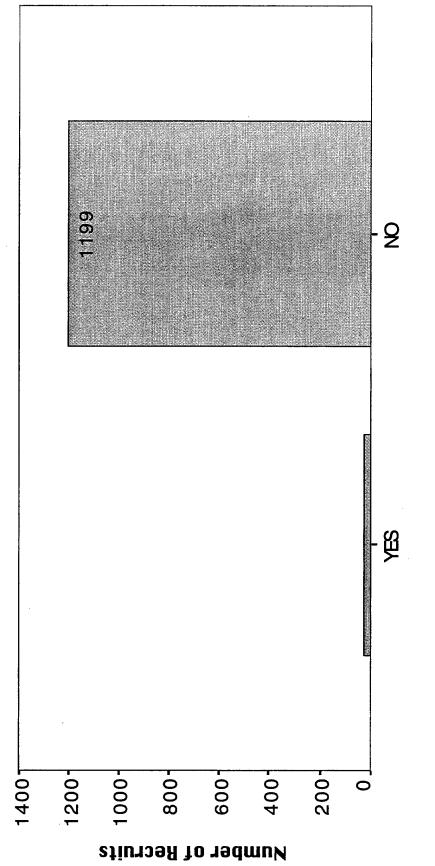
133

Missing cases

1224

Valid cases

FB '89 FLU DISTRIBUTION



Had Flu Within Past Two Weeks

FB Charts: FB Flu

30 Dec 96 SPSS 6.1 for the Power Macintosh

weeks?
two
past
in
fever
had
recruit
Has
FEVER

Value Label		Value	Frequency Percent	Percent	valld Percent	Cum	
YE.S NO UNKNOMN		1.00	79 1147 131	5.8 84.5 9.6	6.4 93.6 Missing	6.4 100.0	
		Total	1357	100.0 100.0	100.0		
Valid cases	1226	Missing cases	ases 131				

FB '89 FEUER DISTRIBUTION 9 쥢 1200--009 14001 1000-800-400 200-0 Number of Recruits

Had a Fever Within Past Two Weeks

1/9/97

FB Charts: FB Fever

30 Dec 96 SPSS 6.1 for the Power Macintosh

Has recruit had nausea in past two weeks?

O\_NAUSEA

Cum Percent	10.9	
Valid Percent	10.9 89.1 Missing	
Percent	8.8 8.8 100.00	
Frequency	135 1102 120 	es 120
Value F	1.00 2.00 .00 Total	Missing cases
		1237
Value Label	YES NO UNKNOWN	Valid cases

FB '89 NAUSER DISTRIBUTION 9 XES 4001 14007 1200-1000-800--009 200-0 Number of Recruits

Had Nausea Within Past Two Weeks

FB Charts: FB Nausea 1/9/9

30 Dec 96 SPSS 6.1 for the Power Macintosh

weeks?
two
past
'n
vomited
recruit
Has
O_VOMIT

Value Label		Value	Value Frequency	Percent	Valid Percent	Cum Percent	
YES		1.00	48	3.5	3.9	3.9	
NO		2.00	1174	86.5	96.1	100.0	
UNKNOWN		00.	135	9.9	9.9 Missing		
		•	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
		Total	1357		100.0		
Valid cases	1222	Missing cases	ases 135				

FB '89 UOMITING DISTRIBUTION 9 <del>(</del>30) -009 14007 1200-1000-800-400 200-0 Number of Recruits

Had **Jomiting Within Past Two Weeks** 

1/9/97

FB Charts: FB Vomiting

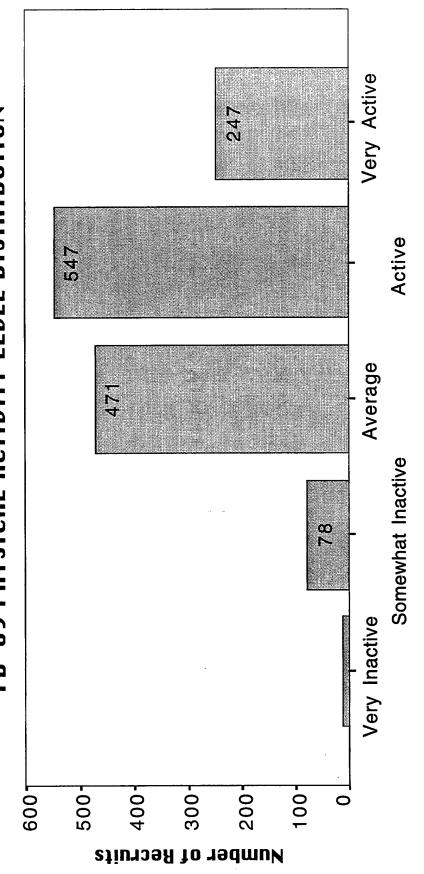
30 Dec 96 SPSS 6.1 for the Power Macintosh

Q\_PHYSAC Physical Activity Level

Value Label	Value	Frequency	Percent	Valid Perceht	Cum Percent	
Very Inactive Somewhat Inactive	1.00	12	9.5.7	ر. وي ه	6.0	
Average	3.00	471	34.7	34.8	41.4	
Active	4.00	547	40.3	40.4	81.8	
Very Active	5.00	247	18.2	18.2	100.0	
Unknown	00.	7	~.	Missing		
	Total	1357	100.0	100.0		
Valid cases 1355	Missing cases	ases 2				
Statistics for O_PHYSAC:						

Actual Question asked: In regards to your overall physical activity level how would you describe your life compared to others of your age and sex? 4.000 Mode Range 4.000 .746 5.000 Missing cases Median Variance Maximum 3.693 .864 1.000 1355 Valid cases Mean Std dev Minimum

FB '89 PHYSICAL ACTIVITY LEVEL DISTRIBUTION



Physical Activity Level

FB Charts: FB Phys Act

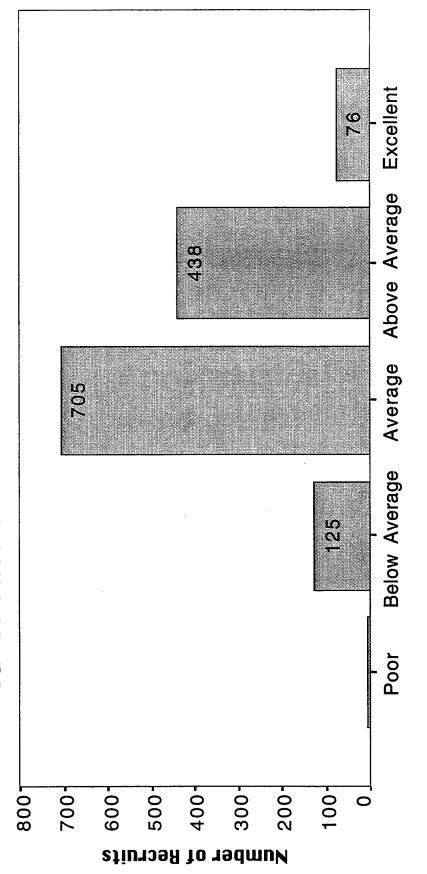
1/9/97

30 Dec 96 SPSS 6.1 for the Power Macintosh

O\_PHYSFI Physical Fitness Level

nt	N & O 4 O						
Cum Percent	.5 9.8 62.0 94.4 100.0				3.000		sex,
Valid Percent	.5 9.3 52.2 32.4 5.6 Missing	100.0					to others of your same age and sex, fitness?
	M. S. I	1(			e ge		me a
Percent	32.9 2.0 2.0 2.0 4.	100.0			Mode Range		ur sa
			9		0.10	9	of yo
Frequency	125 125 705 438 76	1357			3.000 .551 5.000		ers (
Freg	1		ases			ases	o oth
Value	12 E 4 E	Total	Missing cases		an ance mum	Missing cases	red t
Š		Ĕ	Miss		Median Variance Maximum	Miss	Compared physical
				SFI			
			1351	O_PHN	3.334 .743 1.000	1351	aske
-	age age		ហ	for	. 4	Ø	stior you r
Labe.	Avera Je Avera ent		case	tics	<b>≥</b> ■	case	l que
Value Label	Poor Below Average Average Above Average Excellent Unknown		Valid cases	Statistics for O_PHYSFI:	Mean Std dev Minimum	Valid cases	Actual question asked: how would you rate your
>	тшккпр		>	Οĵ	<u> </u>	<b>&gt;</b>	יבן, אבי

FB '89 PHYSICAL FITNESS LEUEL DISTRIBUTION



Physical Fitness Level

1/9/97

FB Charts: FB Phys Fit

30 Dec 96 SPSS 6.1 for the Power Macintosh

Job Activity Level Distribution

O\_JOBACT

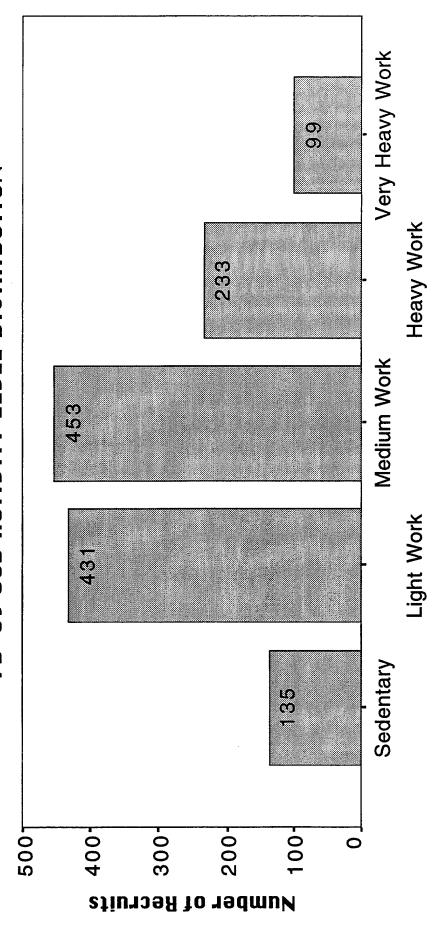
Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent	
Sedentary Light Work	1.00	135 431	9.9	10.0	10.0 41.9	
Medium Work	3.00	453	33.4	33.5	75.4	
Heavy Work	4.00	233	17.2	17.2	92.7	
Very Heavy Work	5.00	66	7.3	7.3	100.0	
Unknown	00.	9	4.	Missing		
	Total	1357	100.0	100.0		
Valid cases 1351	Missing cases	ases 6				

Statistics for Q JOBACT:

Mean Std dev Minimum	2.800 1.070 1.000	Median Variance Maximum	3.000 1.145 5.000	Mode Range	3.000 4.000
Valid cases	1351	Missing cases	9		

Actual question asked: What level of activity describes your most recent job prior to this tour?

FB '89 JOB ACTIVITY LEVEL DISTRIBUTION



Occupational Activity Level

FB Charts: FB Job Act

1/9/97

30 Dec 96 SPSS 6.1 for the Power Macintosh

Q\_EXERCI Exercise Frequency Distribution for MALE recruits

Value Label		Value	Frequency	Percent	Valid Percent	Cum Percent	
None		1.00	142	10.5	10.6	10.6	
< 1/WK		2.00	94	6.9	7.0	17.6	
1/WK		3.00	176	13.0	13.2	30.8	
2-3/WK		4.00	541	39.8	40.4	71.2	
> 4/WK		5.00	385	28.4	28.8	100.0	
Missing		00.	19	1.4	Missing		
		Tota1	1357	100.0	100.0		
Valid cases	1338	Missing cases	ases 19				

Note: Actual Question Asked: How often did you exercise or play sports for 15 minutes or more (other than running or jogging) in the last month prior to coming into the army?

> 4/Wk 385 FB '89 EXERCISE DISTRIBUTION 2-3/Wk 541 1/Wk < 1/Wk 94 None 142 100 500-400 300-200-6007 Number of Recruits

**Exercise Frequency** 

1/9/97

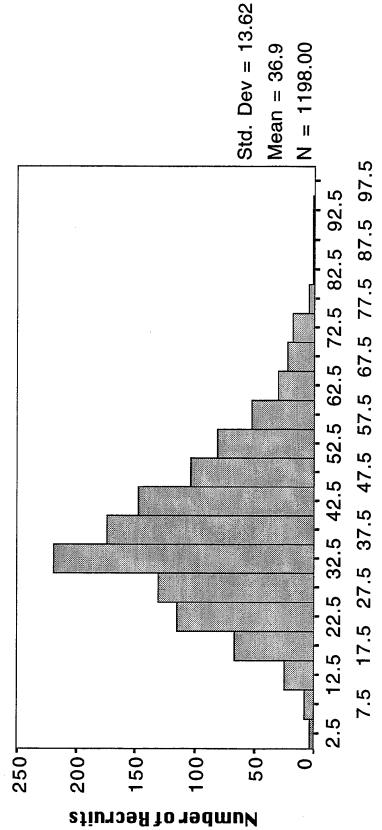
FB Charts: FB Exercise

Number of Push-Ups Completed by MALE recruits on 1st PT Test 30 Dec 96 SPSS 6.1 for the Power Macintosh

 $PU1_2$ 

Cum Percent	2. 28 24 4 28 8 8 2 2 2 8 8 2 2 2 8 8 2 2 2 2		32.000 92.000
Valid Percent	.3 2.0 2.0 10.9 14.4 12.3 8.6 6.8 6.8 6.8 7.1 1.5 1.5 1.5 1.0 1.0		
Percent	2		Mode Range
Frequency	3 8 67 114 130 219 147 103 81 103 22 30 22 30 11 11 159	ises 159	35.000 185.384 93.000 ses 159
Value	10.00 10.00 15.00 25.00 30.00 35.00 45.00 45.00 55.00 75.00 85.00 90.00	Missing cases	Median Variance 1 Maximum Missing cases
		1198 for AP_PU1:	36.927 13.616 1.000 1198
Value Label	0-4 5-9 10-14 15-19 20-24 25-29 30-34 35-39 40-44 45-49 50-54 65-69 70-74 75-79 80-84 85-89 90-94 Missing	Valid cases Statistics fo	Mean Std dev Minimum Valid cases





### Number of Push Ups Completed for 1st PT Test

FB Charts: FB PU1 1/3/97

Push-Up Categories: 0-4, 5-9, 10-14, ..., 95-99

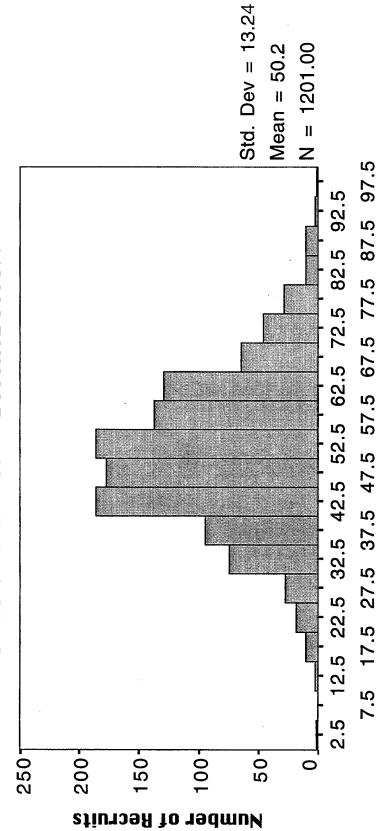
30 Dec 96 SPSS 6.1 for the Power Macintosh

Number of Sit-Ups completed by MALE recruits on the 1st PT Test

 $su_2$ 

1. 2.	1.1	2.6	4.8	11.0	18.8	34.2	49.0	64.4	75.9	9.98	91.9	95.8	98.1	98.9	8.66	6.66	100.0					42.000 93.000	
4.5	. ∞	1.5	2.2	6.2	7.8	•	•	•	11.4	10.7	5.3	3.8	2.3	œ.	φ.	.2	.1	Missing	100.0				
<del>-</del> ; -;	7.	1.3	2.0	5.4	6.9	13.6	13.0	13.7	10.1	9.5	4.7	3.4	2.1	.7	7.	ન.	۲.	11.6	100.0			Mode Rang	
40	10	18	27	74	94	185	177	186	137	129	64	46	28	10	10	7	⊣		135	s 156		50.000 175.204 96.000	is 156
10.00	15.00	20.00	25.00	30.00	35.00	40.00	45.00	20.00	55.00	00.09	65.00	70.00	75.00	80.00	85.00	90.06	95.00	•	Total	fissing case		0 0 E	Missing cases
																				æ	1:	474	~
																				1201	ΑI	50.172 13.236 3.000	1201
0-4	15-19	20-24	25-29	30-34	35-39	40-44	45-49	50-54	55-59	60-64	62-69	70-74	75-79	80-84	85-89	90-94	95-99	SS		Valid cases	Statistics fo	Mean Std dev Minimum	Valid cases
	. 00 1 .1 .1 10.00 2 .1 .2	.00 1 .1 .1 10.00 2 .1 .2 15.00 10 .7 .8	10.00 1 .1 .1 10.00 2 .1 .2 15.00 10 .7 .8 20.00 18 1.3 1.5	.00       1       .1       .1         10.00       2       .1       .2         15.00       10       .7       .8         20.00       18       1.3       1.5         25.00       27       2.0       2.2	10.00       1       .1       .1         10.00       2       .1       .2         15.00       10       .7       .8         20.00       18       1.3       1.5         25.00       27       2.0       2.2         30.00       74       5.4       6.2	10.00       2       .1       .2         15.00       10       .7       .8         20.00       18       1.3       1.5         25.00       27       2.0       2.2         30.00       74       5.4       6.2         35.00       94       6.9       7.8	10.00       1       .1       .1         10.00       2       .1       .2         15.00       10       .7       .8         20.00       18       1.3       1.5         25.00       27       2.0       2.2         30.00       74       5.4       6.2         35.00       94       6.9       7.8         40.00       185       13.6       15.4	10.00       1       .1       .1         15.00       10       .7       .8         20.00       18       1.3       1.5         25.00       27       2.0       2.2         30.00       74       5.4       6.2         35.00       94       6.9       7.8         40.00       185       13.6       15.4         45.00       177       13.0       14.7	10.00       1       .1       .1         10.00       2       .1       .2         15.00       10       .7       .8       1         20.00       18       1.3       1.5       2         30.00       74       5.4       6.2       11         35.00       94       6.9       7.8       18         40.00       185       13.6       15.4       34         45.00       177       13.0       14.7       49         50.00       186       13.7       15.5       64	10.00       1       .1       .1         10.00       2       .1       .2         15.00       10       .7       .8       1         20.00       18       1.3       1.5       2         25.00       27       2.0       2.2       4         30.00       74       5.4       6.2       11         35.00       94       6.9       7.8       18         40.00       185       13.6       15.4       34         45.00       177       13.0       14.7       49         50.00       186       13.7       11.4       75         55.00       137       10.1       11.4       75	10.00       1       .1       .1         10.00       2       .1       .2         15.00       18       1.3       1.5       2         20.00       18       1.3       1.5       2       4         30.00       74       5.4       6.2       11       2       11       2       12       4       4       18       18       18       18       18       18       4 <td>10.00       1       .1       .1         10.00       2       .1       .2         15.00       18       1.3       1.5       2         20.00       18       1.3       1.5       2       4         30.00       74       5.4       6.2       11       2       11       2       12       4       4       4       18       18       18       18       18       18       18       4       5       3<!--</td--><td>10.00       1       .1       .1         10.00       2       .1       .2       .1         15.00       18       1.3       1.5       2         20.00       18       1.3       1.5       2       4         30.00       74       5.4       6.2       11       18       18       18       18       18       18       18       18       18       18       14       49       49       64       49       64       49       64       49       64       49       64       49       64       49       64       49       64       49       64       49       64       49       65       64       49       65       64       49       65       64       49       65       64       49       65       64       49       65       65       64       49       65       65       64       49       65       63       65       63       65       64       40       65       63       65       65       64       65       64       65       65       64       65       65       64       65       65       66       66       66       66       &lt;</td><td>10.00       1       .1       .1       .1       .1       .2       .1       .2       .2       .2       .1       .2       &lt;</td><td>10.00       1       .1       .1       .1       .1       .2       .1       .2       .1       .2       .2       .2       .2       .2       .2       .2       .2       .4       .4       .2       &lt;</td><td>10.00       1       .1       .1       .1       .1       .2       .1       .2       .1       .2       .2       .2       .2       .2       .2       .2       .4       .4       .2       &lt;</td><td>4         10.00       1         9       15.00         15.00       10         20.00       18         20.00       27       2.0         27       2.0       2.2         30.00       27       2.0       2.2         4       35.00       94       6.9       7.8       18         4       40.00       185       13.6       15.4       34         9       45.00       186       13.7       15.5       64         4       55.00       186       13.7       15.5       64         4       60.00       129       9.5       10.7       86         4       70.00       46       3.4       3.8       95         4       75.00       28       2.1       2.3       98         4       86.00       10       7       .8       99         4       86.00       10       .7       .8       99         9       9       .7       .8       99         10       .7       .8       99         10       .7       .8       99         10       .7</td><td>10.00 2</td><td>10.00 1 .1 15.00 16 .1 20.00 20.00 18 1.3 1.5 25.00 27 2.0 2.2 40.00 18 1.3 1.5 27 2.0 27 2.0 27 2.0 27 2.0 27 2.0 27 2.0 27 2.0 27 2.0 27 2.0 27 2.0 27 2.0 27 2.0 27 2.0 27 2.0 27 2.0 27 2.0 28 11.4 45.00 129 9.5 10.7 86.00 10 10 7 88.00 10 10 7 88.00 20 10 10 7 88.00 20 10 10 7 89.00 20 10 10 11.1 11.00 95.00 156 11.6 Missing</td><td>10.00 10.00 2 11.00 15.00 18 1.3 1.5 25.00 27 27 28 30.00 35.00 36.00 185 13.0 14.7 49.00 186 13.7 13.0 14.7 49.00 187 11.1 11.4 75.00 28 2.1 2.3 98 85.00 10 7 85.00 10 7 85.00 10 7 85.00 10 85.00 10 10 7 88 99 90.00 2 11.6 Missing 1301 100.0</td><td>10.00 1.1 1.2 15.00 16.00 2 17 18.1.3 1.5 25.00 27 20.00 18 30.00 74 5.4 6.2 11 35.00 94 6.9 7.8 18 40.00 185 13.6 15.4 34 34 35.00 186 13.7 13.0 14.7 49 55.00 187 10.1 11.4 75 50.00 188 50.00 188 75.00 10 70 86.00 10 70 87 88 89 89 89 80 80 80 80 80 80 80 80 80 80 80 80 80</td><td>10.00 1 .1 .1 .1 .2 .1 .2 .1 .2 .1 .2 .1 .2 .1 .2 .2 .0 .0 .0 .1 .2 .1 .2 .2 .0 .0 .0 .1 .2 .1 .2 .2 .0 .0 .0 .0 .0 .1 .2 .1 .2 .2 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0</td><td>10.00 2 11.1 12.2 15.00 10.01 2 11.3 11.5 20.00 18 11.3 11.5 20.00 27 20.00 27 20.00 27 20.00 27 20.00 20.00 185 13.6 15.4 40.7 184 40.00 185 13.6 14.7 49 45.00 177 13.0 14.7 49 45.00 186 13.7 13.0 14.7 49 45.00 186 13.7 13.0 14.7 49 95 95 90 90 90 90 10 10 10 10 10 10 10 10 10 10 10 10 10</td></td>	10.00       1       .1       .1         10.00       2       .1       .2         15.00       18       1.3       1.5       2         20.00       18       1.3       1.5       2       4         30.00       74       5.4       6.2       11       2       11       2       12       4       4       4       18       18       18       18       18       18       18       4       5       3 </td <td>10.00       1       .1       .1         10.00       2       .1       .2       .1         15.00       18       1.3       1.5       2         20.00       18       1.3       1.5       2       4         30.00       74       5.4       6.2       11       18       18       18       18       18       18       18       18       18       18       14       49       49       64       49       64       49       64       49       64       49       64       49       64       49       64       49       64       49       64       49       64       49       65       64       49       65       64       49       65       64       49       65       64       49       65       64       49       65       65       64       49       65       65       64       49       65       63       65       63       65       64       40       65       63       65       65       64       65       64       65       65       64       65       65       64       65       65       66       66       66       66       &lt;</td> <td>10.00       1       .1       .1       .1       .1       .2       .1       .2       .2       .2       .1       .2       &lt;</td> <td>10.00       1       .1       .1       .1       .1       .2       .1       .2       .1       .2       .2       .2       .2       .2       .2       .2       .2       .4       .4       .2       &lt;</td> <td>10.00       1       .1       .1       .1       .1       .2       .1       .2       .1       .2       .2       .2       .2       .2       .2       .2       .4       .4       .2       &lt;</td> <td>4         10.00       1         9       15.00         15.00       10         20.00       18         20.00       27       2.0         27       2.0       2.2         30.00       27       2.0       2.2         4       35.00       94       6.9       7.8       18         4       40.00       185       13.6       15.4       34         9       45.00       186       13.7       15.5       64         4       55.00       186       13.7       15.5       64         4       60.00       129       9.5       10.7       86         4       70.00       46       3.4       3.8       95         4       75.00       28       2.1       2.3       98         4       86.00       10       7       .8       99         4       86.00       10       .7       .8       99         9       9       .7       .8       99         10       .7       .8       99         10       .7       .8       99         10       .7</td> <td>10.00 2</td> <td>10.00 1 .1 15.00 16 .1 20.00 20.00 18 1.3 1.5 25.00 27 2.0 2.2 40.00 18 1.3 1.5 27 2.0 27 2.0 27 2.0 27 2.0 27 2.0 27 2.0 27 2.0 27 2.0 27 2.0 27 2.0 27 2.0 27 2.0 27 2.0 27 2.0 27 2.0 27 2.0 28 11.4 45.00 129 9.5 10.7 86.00 10 10 7 88.00 10 10 7 88.00 20 10 10 7 88.00 20 10 10 7 89.00 20 10 10 11.1 11.00 95.00 156 11.6 Missing</td> <td>10.00 10.00 2 11.00 15.00 18 1.3 1.5 25.00 27 27 28 30.00 35.00 36.00 185 13.0 14.7 49.00 186 13.7 13.0 14.7 49.00 187 11.1 11.4 75.00 28 2.1 2.3 98 85.00 10 7 85.00 10 7 85.00 10 7 85.00 10 85.00 10 10 7 88 99 90.00 2 11.6 Missing 1301 100.0</td> <td>10.00 1.1 1.2 15.00 16.00 2 17 18.1.3 1.5 25.00 27 20.00 18 30.00 74 5.4 6.2 11 35.00 94 6.9 7.8 18 40.00 185 13.6 15.4 34 34 35.00 186 13.7 13.0 14.7 49 55.00 187 10.1 11.4 75 50.00 188 50.00 188 75.00 10 70 86.00 10 70 87 88 89 89 89 80 80 80 80 80 80 80 80 80 80 80 80 80</td> <td>10.00 1 .1 .1 .1 .2 .1 .2 .1 .2 .1 .2 .1 .2 .1 .2 .2 .0 .0 .0 .1 .2 .1 .2 .2 .0 .0 .0 .1 .2 .1 .2 .2 .0 .0 .0 .0 .0 .1 .2 .1 .2 .2 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0</td> <td>10.00 2 11.1 12.2 15.00 10.01 2 11.3 11.5 20.00 18 11.3 11.5 20.00 27 20.00 27 20.00 27 20.00 27 20.00 20.00 185 13.6 15.4 40.7 184 40.00 185 13.6 14.7 49 45.00 177 13.0 14.7 49 45.00 186 13.7 13.0 14.7 49 45.00 186 13.7 13.0 14.7 49 95 95 90 90 90 90 10 10 10 10 10 10 10 10 10 10 10 10 10</td>	10.00       1       .1       .1         10.00       2       .1       .2       .1         15.00       18       1.3       1.5       2         20.00       18       1.3       1.5       2       4         30.00       74       5.4       6.2       11       18       18       18       18       18       18       18       18       18       18       14       49       49       64       49       64       49       64       49       64       49       64       49       64       49       64       49       64       49       64       49       64       49       65       64       49       65       64       49       65       64       49       65       64       49       65       64       49       65       65       64       49       65       65       64       49       65       63       65       63       65       64       40       65       63       65       65       64       65       64       65       65       64       65       65       64       65       65       66       66       66       66       <	10.00       1       .1       .1       .1       .1       .2       .1       .2       .2       .2       .1       .2       <	10.00       1       .1       .1       .1       .1       .2       .1       .2       .1       .2       .2       .2       .2       .2       .2       .2       .2       .4       .4       .2       <	10.00       1       .1       .1       .1       .1       .2       .1       .2       .1       .2       .2       .2       .2       .2       .2       .2       .4       .4       .2       <	4         10.00       1         9       15.00         15.00       10         20.00       18         20.00       27       2.0         27       2.0       2.2         30.00       27       2.0       2.2         4       35.00       94       6.9       7.8       18         4       40.00       185       13.6       15.4       34         9       45.00       186       13.7       15.5       64         4       55.00       186       13.7       15.5       64         4       60.00       129       9.5       10.7       86         4       70.00       46       3.4       3.8       95         4       75.00       28       2.1       2.3       98         4       86.00       10       7       .8       99         4       86.00       10       .7       .8       99         9       9       .7       .8       99         10       .7       .8       99         10       .7       .8       99         10       .7	10.00 2	10.00 1 .1 15.00 16 .1 20.00 20.00 18 1.3 1.5 25.00 27 2.0 2.2 40.00 18 1.3 1.5 27 2.0 27 2.0 27 2.0 27 2.0 27 2.0 27 2.0 27 2.0 27 2.0 27 2.0 27 2.0 27 2.0 27 2.0 27 2.0 27 2.0 27 2.0 27 2.0 28 11.4 45.00 129 9.5 10.7 86.00 10 10 7 88.00 10 10 7 88.00 20 10 10 7 88.00 20 10 10 7 89.00 20 10 10 11.1 11.00 95.00 156 11.6 Missing	10.00 10.00 2 11.00 15.00 18 1.3 1.5 25.00 27 27 28 30.00 35.00 36.00 185 13.0 14.7 49.00 186 13.7 13.0 14.7 49.00 187 11.1 11.4 75.00 28 2.1 2.3 98 85.00 10 7 85.00 10 7 85.00 10 7 85.00 10 85.00 10 10 7 88 99 90.00 2 11.6 Missing 1301 100.0	10.00 1.1 1.2 15.00 16.00 2 17 18.1.3 1.5 25.00 27 20.00 18 30.00 74 5.4 6.2 11 35.00 94 6.9 7.8 18 40.00 185 13.6 15.4 34 34 35.00 186 13.7 13.0 14.7 49 55.00 187 10.1 11.4 75 50.00 188 50.00 188 75.00 10 70 86.00 10 70 87 88 89 89 89 80 80 80 80 80 80 80 80 80 80 80 80 80	10.00 1 .1 .1 .1 .2 .1 .2 .1 .2 .1 .2 .1 .2 .1 .2 .2 .0 .0 .0 .1 .2 .1 .2 .2 .0 .0 .0 .1 .2 .1 .2 .2 .0 .0 .0 .0 .0 .1 .2 .1 .2 .2 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0 .0	10.00 2 11.1 12.2 15.00 10.01 2 11.3 11.5 20.00 18 11.3 11.5 20.00 27 20.00 27 20.00 27 20.00 27 20.00 20.00 185 13.6 15.4 40.7 184 40.00 185 13.6 14.7 49 45.00 177 13.0 14.7 49 45.00 186 13.7 13.0 14.7 49 45.00 186 13.7 13.0 14.7 49 95 95 90 90 90 90 10 10 10 10 10 10 10 10 10 10 10 10 10





#### Number of Sit-Ups Completed for 1st PT Test

FB Charts: FB SU1 1/8/97

Sit-Ups Categories: 8-4, 5-9, 18-14, 15-19, ..., 94-99

30 Dec 96 SPSS 6.1 for the Power Macintosh

RNTM1\_2

Run Times of MALE recruits on the 1st PT Test - 2 mile run

																			Data below this line not shown on graph				
Cum Percent	~	3.2	10.1	20.7	38.0	54.5		81.8	88.6	91.6	95.0	97.1	98.2	98.8	99,1	99.7	8.66		100.0				
Valid Percent	7.	3.0				16.5		10.6	6.9	3.0	3,3	2.1	1.2	9.	۳.	9.	7	τ:	.1 Missing	100.0	) • •		
Percent	₽.	2.7	6.1	9.4	15.2	14.5	14.7	9.4	6.0	2.7	2.9			.5	.2	5.	۲.	۲.	.1.9	100.0	)		
Frequency	7	36	83	127	207	197	200	127	82	36	40	25	14	7	m	7	2	⊣	161	1357		es 161	
Value F	10.00	11.00	12.00	13.00	14.00	15.00	16.00	17.00	18.00	19.00	20.00	21.00	22.00	23.00	24.00	25.00	26.00	27.00	34.00	Total		Missing cases	(minutes):
																			! 			1197	AP_RNTM1
Value Label	0-10.9	1-11.9	12-12.99	3 - 13.9	4-14.9	5-15.9	6-16.9	7-17.9	8-18.9	9-19.9	0-20.0	1-21.9	2-22.9	3 - 23.9	4-24.9	5-25.9	6-26.9	7-27.9	34-34.99 Missing			Valid cases	Statistics for

15.420 24.230

Mode Range

15.670 7.056 34.880

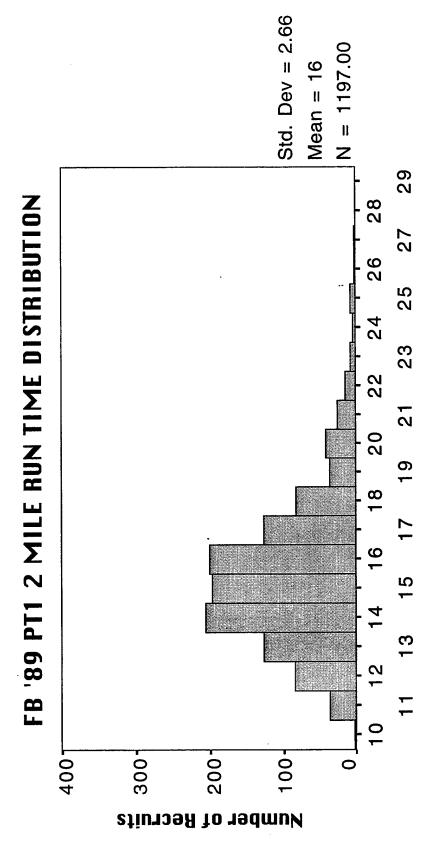
Median Variance Maximum

15.993 2.656 10.650

Mean Std dev Minimum Valid cases 1197 Missing cases

161

<sup>\*</sup> Multiple modes exist. The smallest value is shown.



Run Time for 2 mile Run for PT Test 1 (min)

FB Charts: FB Run1 1/9/97

Run Time Categories: 10-10.99, 11-11.99, 12-12.99, ..., 29-29.99

SPSS 6.1 for the Power Macintosh 30 Dec 96

Test
P
4th
the
g
recruits
MALE
ģ
completed
Push-Ups
ğ
Number
PU4_2

	Data below this line not shown on graph	
Cum Percent	20.8 35.9 35.9 55.0 65.0 984.4 99.5 100.0 Da	
Valid Percent	7.8 12.6 15.0 14.0 11.2 8.3 8.3 8.3 7.2 7.2 7.3 7.3 7.3 100.0	
Percent	100.00 10.04 10.07 111.9 100.0 100.0 100.0 100.0	
Frequency	89 145 172 161 172 172 173 95 70 35 27 27 27 8 8 4 4 4 4	
Value	25.00 30.00 35.00 40.00 45.00 55.00 60.00 65.00 75.00 85.00 95.00 95.00	
Value Label	25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69 70-74 75-79 80-84 85-89 90-94 95-99 Missing	

Missing cases 1147 Valid cases

Statistics for AP\_PU4:

211

Mode Range 50.000 175.911 102.000 Median Variance Maximum 50.981 13.263 26.000 Mean Std dev Minimum

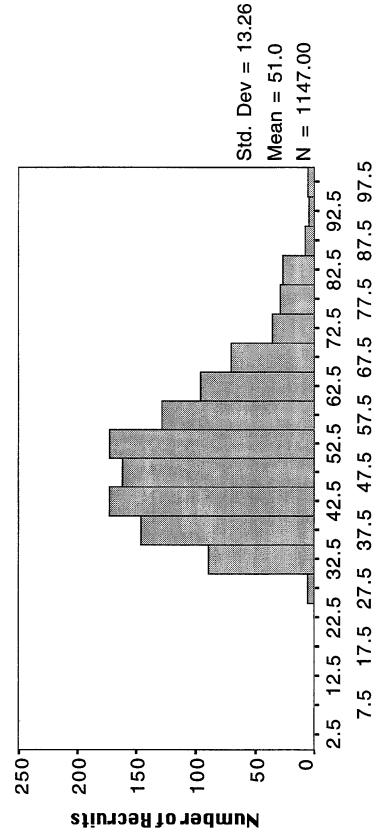
40.000

Missing cases 1147 Valid cases

211

The smallest value is shown. \* Multiple modes exist.

#### FB '89 PT4 PUSH UPS DISTRIBUTION



### Number of Push Ups Completed for 4th PTTest

FB Charts: FB PU4 1/3/9

Push-Up Categories: 0-4, 5-9, 10-14, ..., 95-99

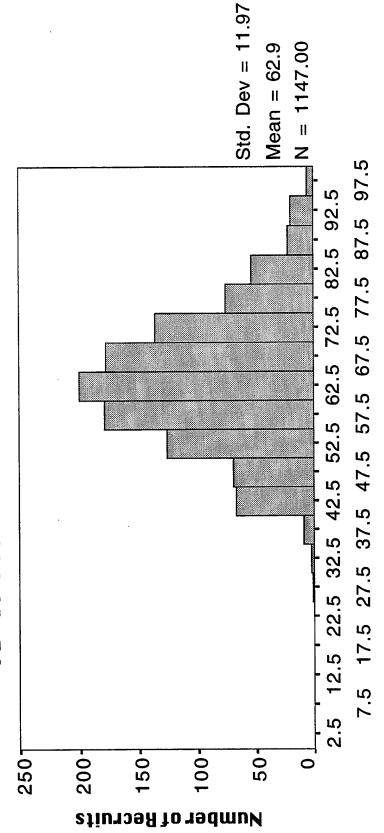
30 Dec 96 SPSS 6.1 for the Power Macintosh

Number of Sit-Ups completed by MALE recruits on the 4th PT Test

 $SU4_2$ 

	Data below this line not shown on graph				
Cum Percent	1			60.000	
Valid Percent		0.001			
Percent	1	0.001		Mode Range	
Frequency	1 2 69 69 126 179 200 178 136 53 22 20 20 3	. 1338 cases 211		62.000 143.205 106.000	ses 211
Value	25.00 30.00 35.00 45.00 55.00 65.00 75.00 85.00 85.00 95.00 105.00	Total Missing ca		Median Variance Maximum	Missing cases
		1147	for AP_SU4:	62.907 11.967 29.000	1147
Value Label	25-29 30-34 35-39 40-44 45-49 50-54 55-59 60-64 65-69 70-74 75-79 80-84 85-89 90-94 95-99 100-104 105-109 Missing	Valid cases	Statistics f	Mean Std dev Minimum	Valid cases

#### FB '89 PT4 SIT-UPS DISTRIBUTION



#### Number of Sit-Ups Completed for 4th PT Test

FB Charts: FB SU4

1/7/9

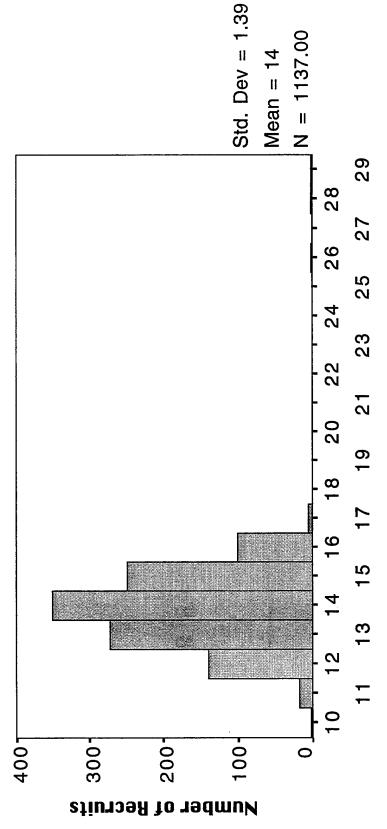
Sit-Up Categories: 0-4, 5-9, 10-14, ..., 95-99

30 Dec 96 SPSS 6.1 for the Power Macintosh

RNTM4\_2 Run Times of MALE recruits on the 4th PT Test

Cum Percent	100.0 10.0 10.0 100.0 100.0	14.000 18.370
Valid Percent	1.6 12.2 23.9 30.8 21.8 8.7 8.7 8.7 .1 .1	) ) )
Percent	1.1 10.2 20.0 20.0 25.8 18.3 7.3 1.1 16.3	Mode
Frequency	1139 272 350 248 248 99 11 122 1358	7 7
Value	10.00 11:00 12:00 14:00 15:00 17:00 28:00 16:00	Missing cases  (minutes):  Median  Variance  Maximum  Missing cases
		Valid cases 1137 Statistics for AP_RNTM4 Mean 14.377 Std dev 1.395 Minimum 10.830
Value Label	10-10.99 11-11.99 12-12.99 13-13.99 14-14.99 15-15.99 16-16.99 17-17.99 26-26.99 29-29.99 Missing	Valid cases Statistics f Mean Std dev Minimum

FB '89 PT4 RUN TIME DISTRIBUTION



#### Run Time for 4th PT Test (min)

FB Charts: FB Run4 1/9/97

Run Time Categories: 18-18.99, 11-11.99, 12-12.99, ..., 29-29.99

08 Jan 97 SPSS 6.1 for the Power Macintosh

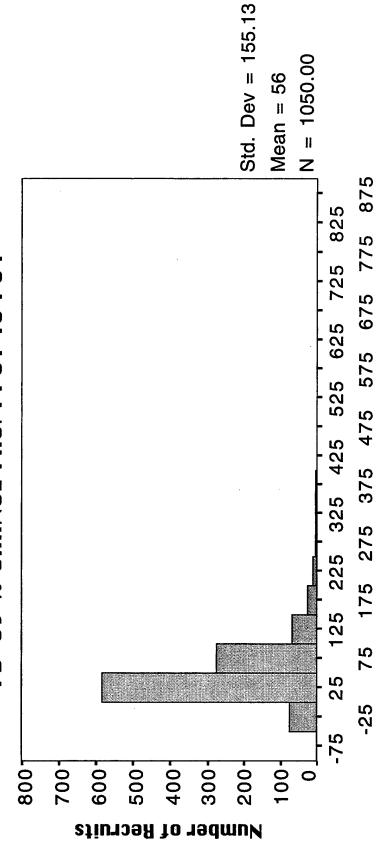
DEL\_PU1

Percent Change from Push-Ups for PT Test 1 to Push-Ups for PT Test 4

	Data below this line	not shown on graph		
Cum Percent	62.6 88.6 995.0 999.0 999.5 1	99.8 99.9 100.0		.000
Valid Percent	7.82 7.83 6.00 7.4.00 7.4.00 7.4.00 7.4.00 7.4.00 7.4.00	100.0		
Percent	255 260 260 260 260 260 260 260 260 260 260	100.0		Mode Range
Frequency	75 282 273 67 67 12 12 11	1 1 1 1050	cases 0	37.321 24064.638 4200.000 ases 0
Value	-50.00 50.00 100.00 150.00 250.00 350.00 450.00 600.00	950.00 2050.00 4200.00 Total	Missing ca	Median Variance 240 Maximum 42 Missing cases
		ത ത	1050 for DEL_PU:	55.846 155.128 -43.860 1050
Value Label	-50-(01) 0-49.99 50-99.99 100-149.99 150-199.99 250-299.99 250-399.99 350-349.99 450-449.99 600-649.99	950-999.99 2050-2099.99 4200-4249.99	Valid cases 1050 Statistics for DEL_P	Mean Std dev Minimum Valid cases

Formula: (OC\_PU4-OC\_PU1)/OC\_PU1\*100

FB '89 % CHANGE FROM PU1 TO PU4



# % Change from Push-Ups for PT Test 1 to Push-Ups for PT Test 4

FB Charts:FB del%PU 1/9/97

[900%=10 fold increase]

del%PU Categories: (-100)-(-50.1), (-50)-(-0.1), 0-49.9, ..., 850-899.9

08 Jan 97 SPSS 6.1 for the Power Macintosh

DEL\_SU1

Percent Change from Sit-Ups for PT Test 1 to Sit-Ups for PT Test 4

Value Label	Value	Frequency	Percent	Valid Percent	Cum Percent	
-50-(01)	-50.00	112	10.6	10.6	10.6	
0-49.99 50-99.99	50.00	726	16.1	16.1	79.7	
100-149.99	100.00	29	2.8	2.8	98.5	
150-199.99	150.00	∞	φ.	∞.	99.2	
200-249.99	200.00	S	.5	ι.	7.66	
250-299.99	250.00	7	.5	7.	6.66	
2350-2399.99	2350.00	 			100.0	Data below this line not shown on graph
	Total	1052	100.0	100.0		
Valid cases 1052	Missing cases	uses 0				
Statistics for DEL_SU:						

Formula: (OC\_SU4-OC\_SU1)/OC\_SU1\*100

50.000 2408.333

Mode Range

26.365 6366.744 2366.667

Median Variance Maximum

34.143 79.792 -41.667

> Std dev Minimum

Mean

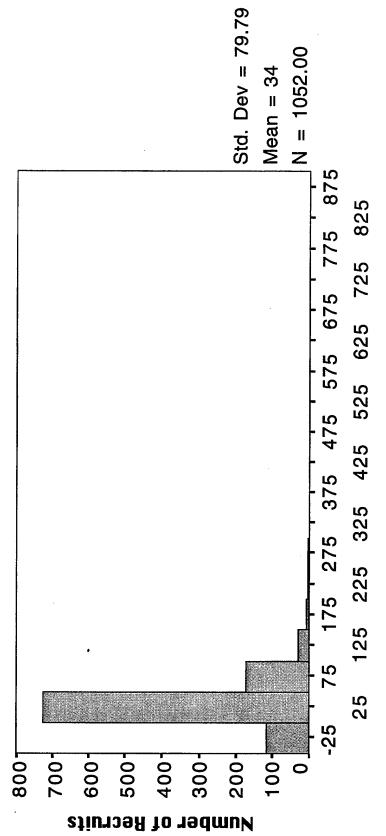
0

Missing cases

1052

Valid cases

FB '89 % CHANGE FROM SU1 TO SU4 DISTRIBUTION



## % Change From Sit-Ups for PT Test 1 to Sit-Ups for PT Test 4

FB Charts: FB del%SU 1/6/97

del%SU Categories: (-50)-(-0.1), 0-49.9, 50-99.9, ..., 850-899.9

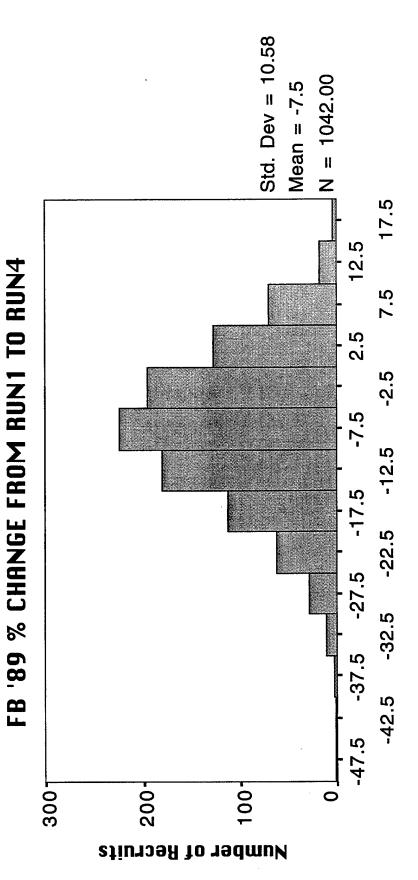
3 Jan 97 SPSS 6.1 for the Power Macintosh

Percent Change from Run Time for PT Test 1 to Run Time for PT Test 4

DEL\_RUN1

	Data below this line not shown on graph				
Cum Percent	1.00 1.0.3 1			.000	
Valid Percent	 1.1 2.7 6.0 10.8 17.3 21.5 18.7 18.7 1.6 1.6 1.6 1.6 1.6				
Percent	11.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.3.			Mode Range	
Frequency	11 28 28 111 28 113 113 128 70 17 17 4 135 135	cases 315		-7.189 111.964 93.342	ises 315
Value	-50.00 -45.00 -45.00 -35.00 -25.00 -15.00 -15.00 -15.00 -15.00 -5.00 10.00 15.00 15.00 15.00 15.00	Missing ca		Median Variance Maximum	Missing cases
		1042	for DEL_RUN:	-7.507 10.581 -45.125	1042
Value Label	-50-(-45.1) -45-(-40.1) -40-(-35.1) -35-(-30.1) -36-(-25.1) -20-(-15.1) -15-(-0.1) -10-(-5.1) -5-(-0.1) 0-4.9 5-9.9 10-14.9 15-19.9 -10-14.9 10-14.9 30-34.9 80-84.9 90-94.9 Missing	Valid cases	Statistics f	Mean Std dev Minimum	Valid cases

Formula: (AP\_RNTM4-AP\_RNTM1)/AP\_RNTM1\*100



% Change from Run Time for PT Test 1 to Run Time for PT Test 4

FB Charts:FB del%Run 1/10/97

[-100%=ran twice as fast]

del%Run Categories: (-50)-(-45.1), (-45)-(-40.1), ..., 10-14.9, 15-19.9